

# Owner's Operating Service Instruction Manual

10¢

**Model Nos.**

**144-860A**

**144-960A**

- **ASSEMBLY**
- **OPERATION**
- **REPAIR PARTS**

**10 & 16 H.P. GARDEN TRACTORS**

## **WARRANTY**

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units, refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. **UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.**

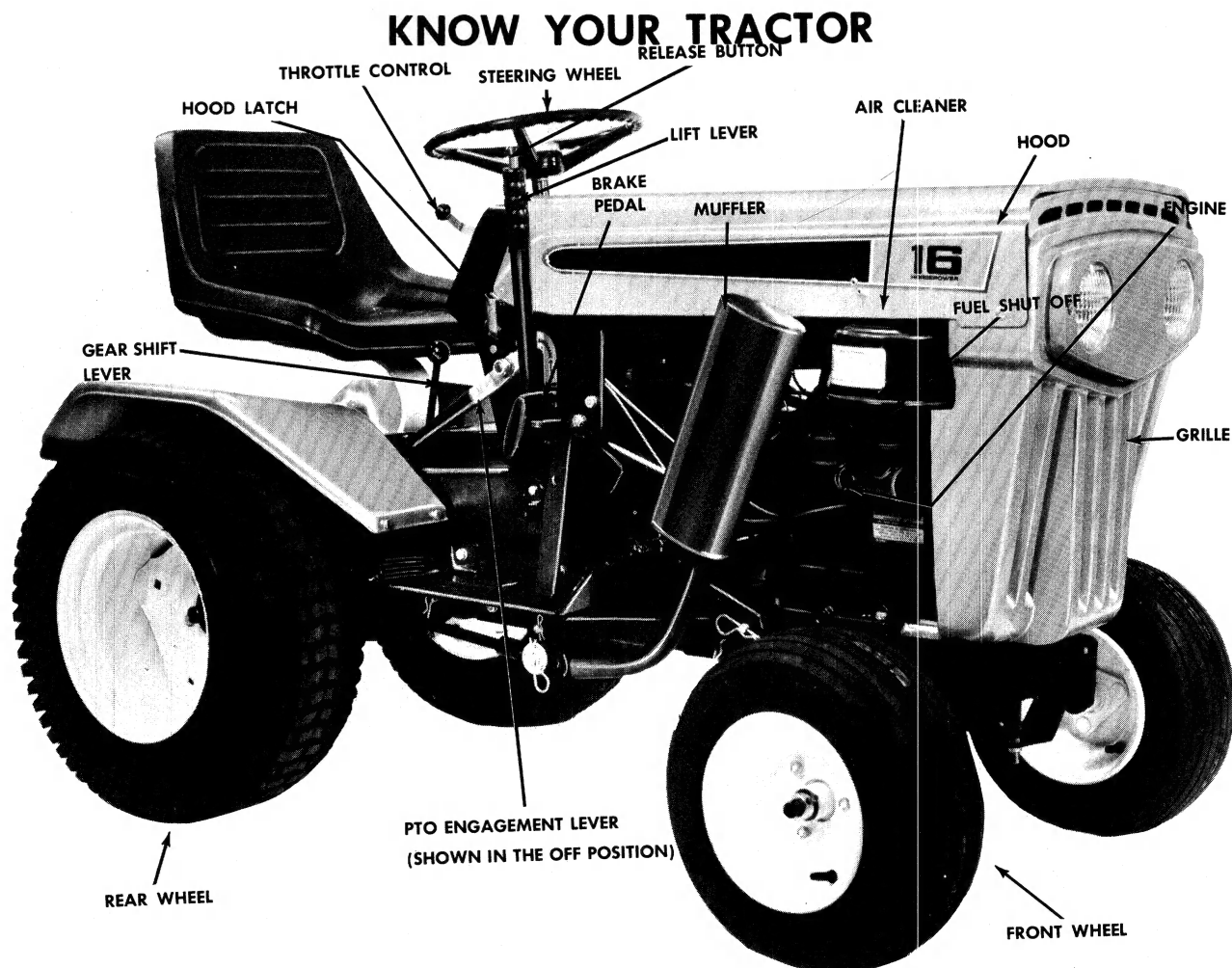
# I M P O R T A N T

## SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine (motor).
6. Disengage power to attachment(s) and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine (motor) before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
  - A. Use only approved drawbar hitch points.
  - B. Limit loads to those you can safely control.
  - C. Do not turn sharply. Use care when backing.
  - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care—it is highly flammable.
  - A. Use approved gasoline container.
  - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
  - C. Open doors if engine is run in garage — exhaust fumes are dangerous. Do not run engine (motor) indoors.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
19. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
20. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
21. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
22. Do not change the engine governor settings or overspeed the engine.
23. When using the vehicle with mower, proceed as follows:
  - (1) Mow only in daylight or in good artificial light.
  - (2) Never make a cutting height adjustment while engine (motor) is running if operator must dismount to do so.
  - (3) Shut engine (motor) off when removing grass catcher and/or unclogging chute.
  - (4) Check blade mounting bolts for proper tightness at frequent intervals.
24. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

# Index

Safe Operation Practices .....	2	Illustrated Parts Left Hand View .....	26
Index and Know Your Tractor .....	3	Parts List of Left Hand View .....	27
Assembly Instructions .....	4	Illustrated Parts for Three-Point Hitch .....	28
Checking Oil and Gasoline and General Information .....	5	Parts List of Three-Point Hitch .....	29
Operating Instructions .....	7	Illustrated Parts for Power Take-Off .....	30
Maintenance .....	8	Parts List of Power Take-Off .....	31
Clutch Removal .....	13	Illustrated Parts for Steering Assembly .....	32
Lubrication .....	14	Parts List of Steering Assembly .....	33
Assembly of Three-Point Hitch .....	16	Illustrated Parts for Clutch Assembly .....	34
Assembly Instructions for Optional Equipment .....	17	Parts List of Clutch Assembly .....	35
Trouble Shooting Chart .....	21	Illustrated Parts and Parts List of Right Angle Drive .....	36
Schematic of Electrical System .....	22	Illustrated Parts for Transaxle .....	37
Disc Brake Assembly .....	23	Parts List of Transaxle .....	38
Illustrated Parts Right Hand View .....	24	Battery Warranty .....	39
Parts List of Right Hand View .....	25	Parts Information .....	40



# ASSEMBLY INSTRUCTIONS

## WARNING

The tractor shall not be operated without the entire grass catcher or chute deflector in place when using the cutting deck.

## NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

## ACTIVATING THE BATTERY

### WARNING

ELECTROLYTE IS A MIXTURE OF SULPHURIC ACID AND WATER. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. IF ELECTROLYTE IS SPILLED FLUSH AREA WITH CLEAR WATER AND NEUTRALIZE WITH SOLUTION OF WATER AND BAKING SODA OR WATER AND AMMONIA.

### CAUTION

Always add electrolyte to battery before battery is installed in vehicle.

1. Remove vent plugs.
2. When using 6 quart or 2 quart container—place package upright; pull tab back to edge of carton, pull out hose; snip off end of hose. Fill each cell until electrolyte level rises to split ring at bottom of vent well.

### DO NOT OVER FILL

3. After filling cells, wait five to ten minutes and add additional electrolyte if necessary to bring electrolyte to proper level.
4. Replace vent caps.
5. Charge battery for 10 to 15 minutes at 25-30 amps. or for 30 minutes at 4-6 amps.

## TIRE PRESSURE

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Pressure should not exceed 15 PSI. Equal tire pressure should be maintained.

## INSTALLING THE BATTERY.

- Step 1. Place the battery in the tractor with the Negative terminal towards the front of the tractor. Do not push the battery all the way in.
- Step 2. Attach the positive cable to the positive battery terminal. The positive cable is marked (P+).
- Step 3. Attach the negative cable to the negative battery terminal. The negative cable is marked (N).

Step 4. Assemble the hold down rods and cross rods with the flat washer and wing nut. See Figure 2.

Step 5. Place the battery hold down assembly over the battery and slide the battery into place. See Figure 3.

Step 6. Hook the hold down rods into the battery case and tighten finger tight.

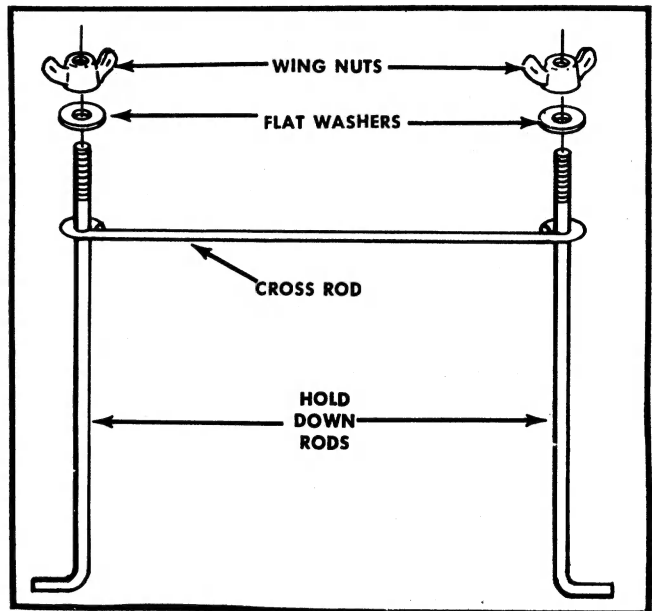


FIGURE 2. HOLD DOWN ASSEMBLY

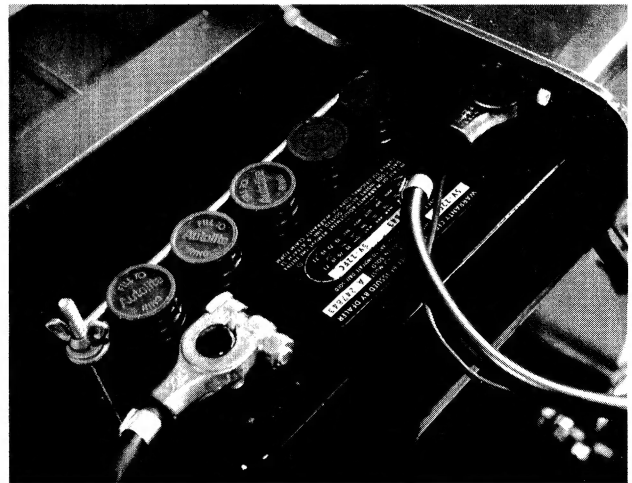


FIGURE 3. BATTERY INSTALLATION

## ASSEMBLING THE THREE POINT HITCH.

Refer to pages 16 through 20 for assembling the three-point Hitch and optional attachments.

### NOTE

Check all nuts and bolts for correct tightness.



## CHECKING OIL AND GASOLINE

### FILL FUEL TANK

Use clean fresh "regular" grade gasoline. Fill tank completely. Gasoline tank capacity is 1-1/2 gallons.

DO NOT FILL GASOLINE TANK WHILE ENGINE IS RUNNING. Avoid spilling gasoline on a hot engine—this may cause an explosion and serious injury.

DO NOT MIX OIL WITH GASOLINE

### OIL RECOMMENDATIONS

WINTER  
(Below 40° F.)  
Use SAE 5W-20

SUMMER  
(Above 40° F.)  
Use SAE 30

Any high quality detergent oil having the American Petroleum Institute classification "For Service MS" can be used in your Briggs & Stratton engine. Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits.

The above oil recommendations are the result of extensive testing. No special additives should be used.

### FILL CRANKCASE WITH OIL See figure 4.

Remove the oil filler plug. Place the engine level. Fill the crankcase to overflowing. POUR SLOWLY. CAPACITY 4 PINTS. Replace the filler plug.

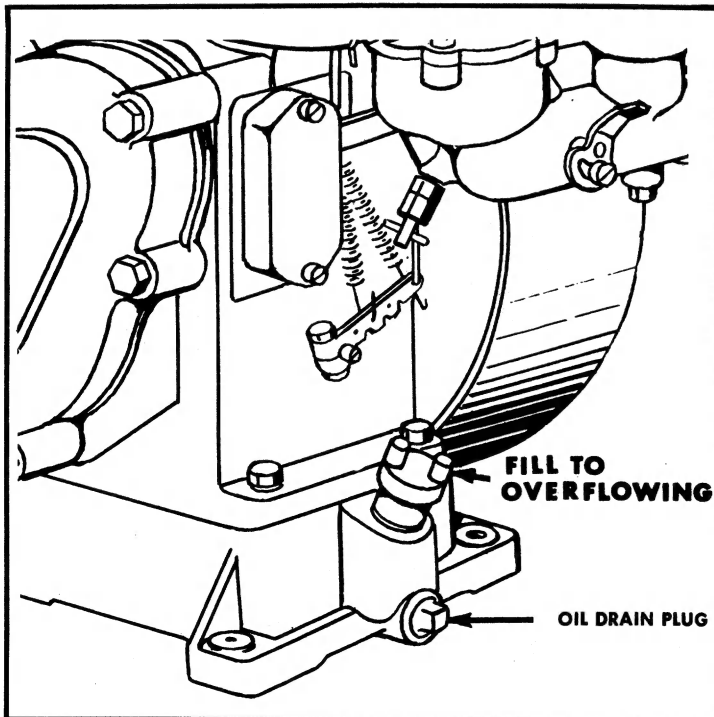


FIGURE 4. OIL FILL AND DRAIN

## GENERAL INFORMATION

### ENGINE AND DRIVE TRAIN

ENGINE—10 or 16 HP Synchro-Balanced Briggs & Stratton cast iron block with 12 volt electric starter.

TRANSAXLE—Peerless with four forward speeds and reverse.

CREEPER GEAR—3/4 MPH at full throttle. Fourth gear 6-1/2 MPH at full throttle. All speeds variable with throttle.

CLUTCH—Five and one-half inch double faced disc clutch.

### ORIENTATION

Your tractor is right hand (R.H.) or left hand (L.H.) as you operate it.

### CLUTCH PEDAL.

The clutch pedal is located on the left hand side of the tractor. Depress it with your left foot to separate the clutch and disconnect the power from the engine to the transaxle. The clutch pedal must be depressed to start the engine.

### CAUTION

Do not shift while in motion.

### BRAKE PEDAL

The brake pedal is located on the right side of the tractor. Depress it with your right foot to stop the tractor. The clutch pedal should also be depressed when coming to a complete stop.

### PARKING BRAKE LOCK

The parking brake lock is located on the low left hand side of the tractor. To operate, depress the brake pedal completely and lock by turning the parking brake lock clockwise until it tightens.

To release the parking brake, hold your foot against the brake pedal and turn the parking brake lock counter-clockwise one turn. Release the brake pedal slowly.

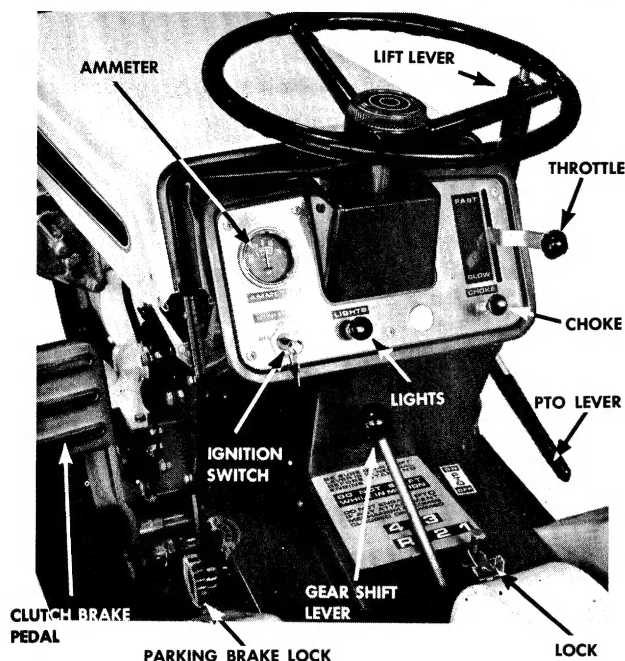
### GEAR SHIFT LEVER

The selection of the correct gear and throttle setting will be determined by the attachment being used. Generally, anything that uses the tractor engine as a power source should be run at full throttle with the ground speed determined by the gear selection.

1st Gear .....	Rotary Tiller
	Snow Thrower
	Snow Blade
	Mold Board Plow
2nd Gear .....	Rotary Tiller
	Snow Thrower
	Snow Blade
	Mold Board Plow
	Heavy Grass Cutting
3rd Gear .....	Medium Grass Cutting
4th Gear .....	Light Grass Cutting
	Road Gear

A lock is provided to prevent accidentally engaging the 1st gear. Do not move the gear shift lever all the way against the lock.

Second gear has a detent and you can feel it click when you are in second gear. Over shifting will cause the teeth to grind on first gear and can cause damage to the transaxle.



**FIGURE 5. CONTROLS**

#### **LIFT LEVER**

The lift lever is used to change the height of the attachments such as the cutting deck, tiller and plow. To operate, depress the thumb button, move the lift lever to the desired height and release the button.

The three point hitch operates off the lift lever and does not have to be disconnected when attaching the cutting deck or snow blade.

#### **IGNITION SWITCH**

Turn the key to the right to engage the starting motor on the engine. To shut off the engine turn the key to the left to the OFF position. See Figure 11. THE IGNITION SWITCH MUST BE ON TO OPERATE THE HEADLIGHTS.

#### **WARNING**

Remove the key from the switch when the tractor is not in use.

#### **THROTTLE CONTROL**

The throttle is used to regulate the engine speed. Move the throttle up to the FAST position and down to the SLOW position. See Figure 5.

When using the tractor engine for a source of power for the cutting deck and the rotary tiller, the engine should be operated at the FAST speed.

#### **CHOKE**

Before starting the engine, pull the choke knob all the way out. After engine starts, move the choke knob in gradually until it is completely in.

When the engine is hot the choke may not be needed to start. See Figure 5.

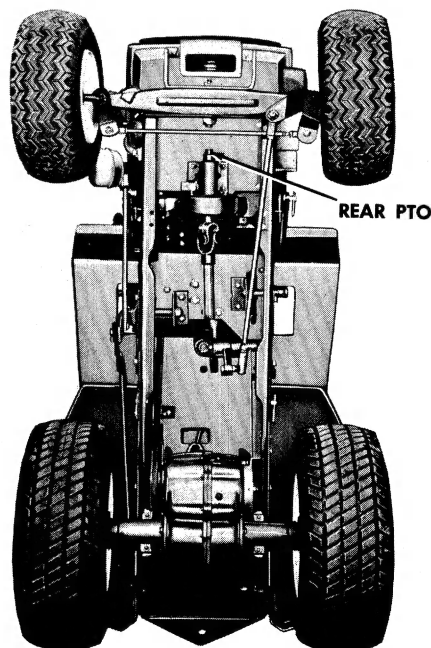
#### **POWER TAKE OFF (PTO) FRONT AND REAR**

There are two PTO's on your tractor. The front PTO (See Figure 6) is located behind the grille and is used to operate the snow thrower. This PTO is attached directly to the engine and runs whenever the engine is running.



**FIGURE 6. FRONT PTO SHOWN WITH GRILLE REMOVED**

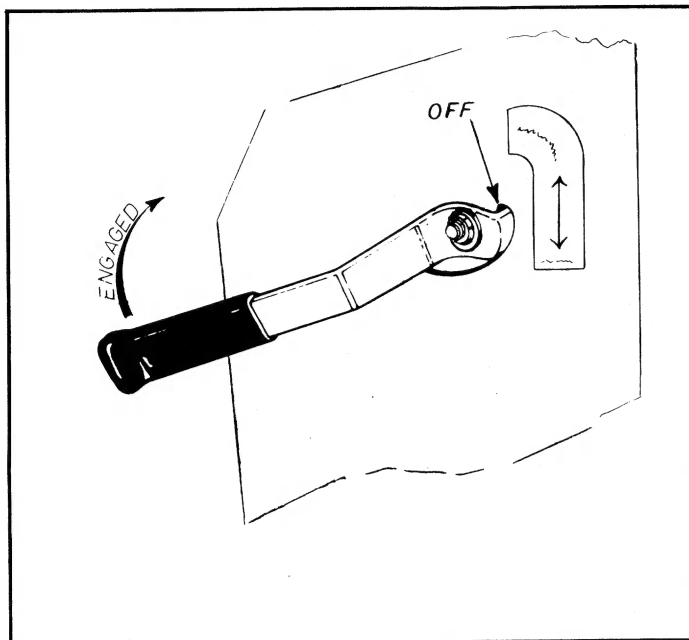
The rear PTO (See Figure 7) is located under the tractor and is used to operate the grass cutting deck and the rotary tiller.



**FIGURE 7. REAR PTO SHOWN WITH DRIVE SHAFT ATTACHED**

The rear PTO can be shut off while the engine is running by moving the PTO lever, located on the right hand side of the tractor, into the OFF position. See Figures 5 and 8.

The PTO Lever must be in the disengaged position before the engine will start. See Figure 8.



**FIGURE 8. PTO LEVER**

#### **LIGHTS**

Pull the light switch out to turn on the head lights. The ignition switch must be on to operate the head lights.

#### **WHEELS**

Front (10 and 16 HP) ..... 16 x 6.50-12  
Rear (10 and 16 HP) ..... 23 x 9.50-12

Tire pressure is 15 psi.

The rear valve stems are to the inside to accommodate wheel weights.

One hundred pounds (two 50 pound weights) can be attached to the rear wheels to increase rear traction for attachments such as the plow, snow blade, snow blower and rotary tiller.

#### **AMMETER**

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running in the "Fast" position until the battery is completely charged. With a fully charged battery or with the engine idling the ammeter will not show a charge. See Figure 5.

#### **REAR WHEEL ADJUSTMENT**

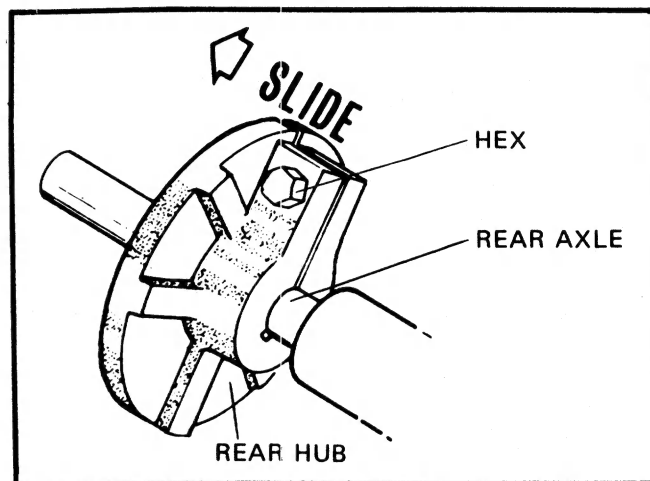
Each rear wheel is adjustable out 2-3/4 inches on the axle. See Figure 9.

#### **NOTE**

Do not over extend the hubs.

The rear hubs are extended to give greater stability when operating on hilly terrain.

To adjust, loosen the hex bolt and slide the rear hubs out.



**FIGURE 9. REAR HUBS**

#### **SEAT**

The seat is adjustable forward or backward by removing the seat bolt and reassembling it in a different hole.

## **OPERATING INSTRUCTIONS**

#### **IMPORTANT**

After striking a foreign object, stop the engine (motor), remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

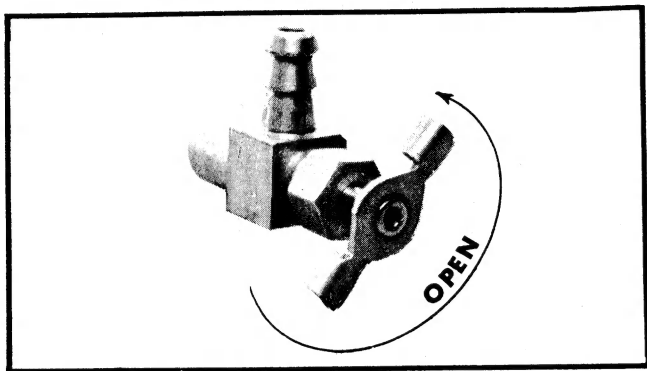
#### **CAUTION**

1. Keep all shields and guards in place.
2. Before leaving operator's position:
  - Shift transmission to neutral
  - Set parking brake
  - Disengage attachment clutch
  - Shut off engine
  - Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

## **STARTING YOUR ENGINE**

To get the feel of your tractor, operate it in a large open space until you become familiar with the controls.

1. Be sure you have read the manual to acquaint yourself with the controls.
2. Fill engine with oil and gasoline as outlined on page 5 of this manual.
3. Open fuel shut-off valve located under the gasoline tank. See Figure 10.



**FIGURE 10. FUEL SHUT OFF VALVE**

4. Attach the spark plug wire.
5. Pull the choke knob all the way out.
6. Place the throttle control lever halfway between FAST and SLOW.
7. Place the PTO Lever in the disengaged position. See Figure 14. The engine will not start unless the PTO Lever is disengaged.
8. Depress the Clutch Pedal. The engine will not start unless the clutch pedal is depressed.
9. Turn the ignition key to the right to engage the starter. When the engine starts, move the choke knob in half way. After the engine warms up, push the choke knob in gradually until completely in.

## **NOTE**

When the engine is hot, the choke may not be needed to start the engine.

## **CAUTION**

Do NOT run starter for more than 30 seconds at a time. If engine does not start after several tries, place throttle control in FAST position, wait several minutes and try again without moving the throttle lever from the FAST position.

## **STOPPING YOUR ENGINE**

To stop the engine, turn the ignition key to the left.

## **WARNING**

Never leave the ignition key in the tractor when not in use to prevent accidental starting.

Remove the spark plug wire from the spark plug when tractor is not in use to prevent accidental starting.

## **POWER TAKE OFF (PTO)**

The PTO should be in the "OFF" position (Handle Down) when starting the engine and when attachments using the PTO are not on the tractor. If, while using the cutting unit or the rotary tiller, they become clogged and will not operate, shut off the engine AND THE PTO and remove the spark plug wire before clearing the attachment.

The PTO engagement lever should be engaged fast to prevent wear on the PTO belts.

The cutting unit and the rotary tiller can be raised or lowered while they are operating under full power. For example, the rotary tiller can be lifted from the ground with the lift lever in order to turn the tractor around without shutting off the PTO.

# **MAINTENANCE**

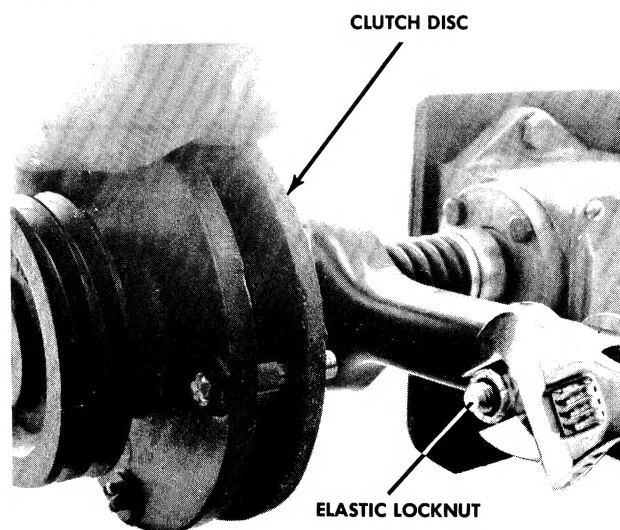
## **CLUTCH ADJUSTMENT**

- Step 1. Remove the spark plug from the engine.
- Step 2. Rotate the clutch disc by hand and tighten the elastic locknut (Figure 11) until the bearing stops rotating (Figure 12).

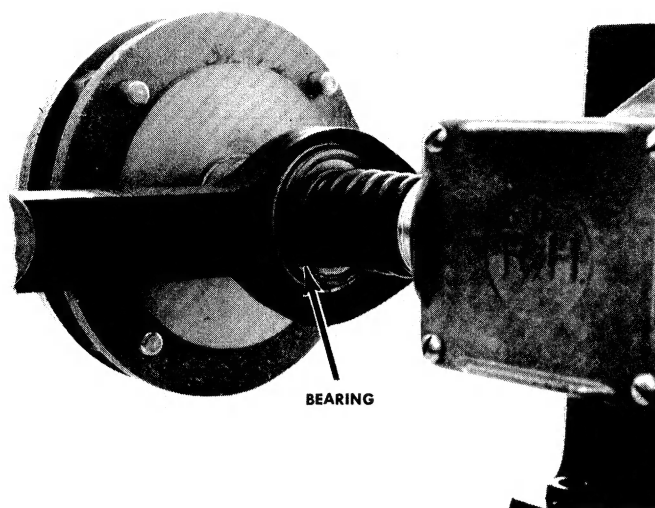
## **NOTE**

When the bearing stops turning, all the play has been taken from the throw out assembly.

- Step 3. Back off the elastic locknut just enough for the bearing to rotate freely when you rotate the clutch disc.



**FIGURE 11. CLUTCH ADJUSTMENT**



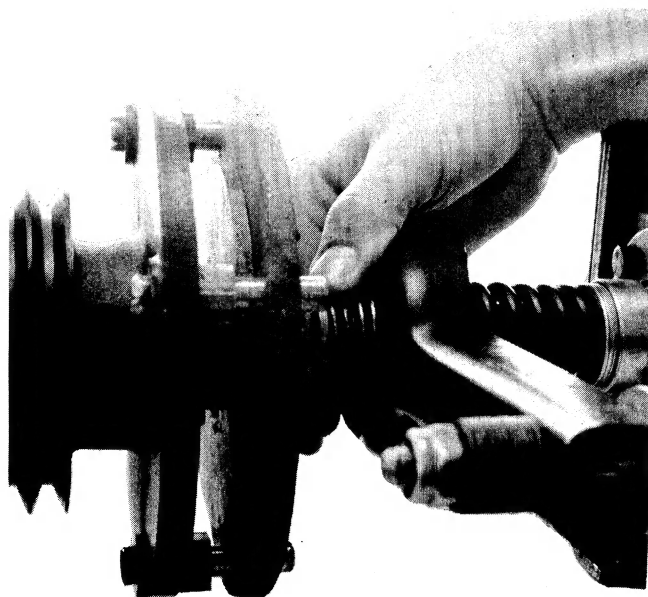
**FIGURE 12. THROW OUT BEARING**

Step 4. To ensure that the clutch disc is separating, check the pressure on the clutch disc.

**WARNING**

**Do not have the engine running.**

Depress the clutch pedal with your left hand and try to rotate the small spring located between the pressure plate and the throwout yoke with your right hand. See Figure 19. You should be able to rotate this spring by hand. If it does not repeat steps 2 and 3.



**FIGURE 13. CLUTCH SPRING**

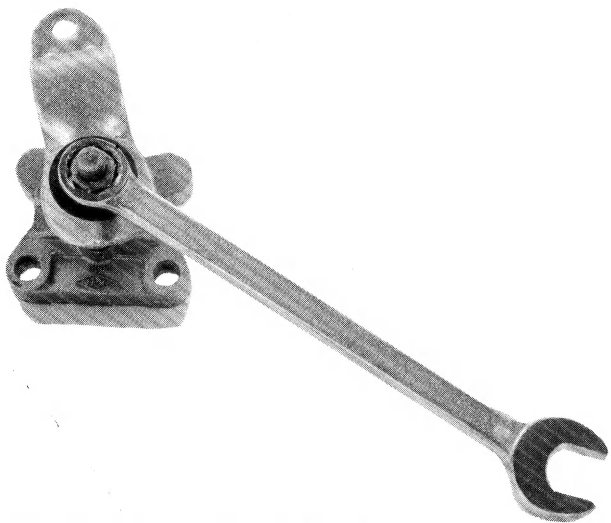
## **TROUBLESHOOTING CLUTCH PROBLEMS**

If the clutch does not disengage after following the proper adjustment procedures or you cannot shift from neutral to any gear without the gears grinding, the following conditions could exist.

1. The milled slot in the rear pressure plate is not centered and it is binding on the roll pin. Replace the rear pressure plate.
2. If either of the pressure plates are warped, the clutch will not separate and they should be replaced.
3. If any weld splash is on either pressure plate, it will cause the disc to hang up and the clutch will not disengage. Remove the splash or replace the pressure plates.
4. When the holes are not drilled properly in the fiber clutch disc it will hang up on the drive pins and will not separate. Replace the fiber disc.
5. Rust on the center shaft of the clutch can cause the spring guides under the small spring to bind. See Figure 13. Remove the rust from the shaft and lubricate with a thin film of oil.

## **BRAKE ADJUSTMENT**

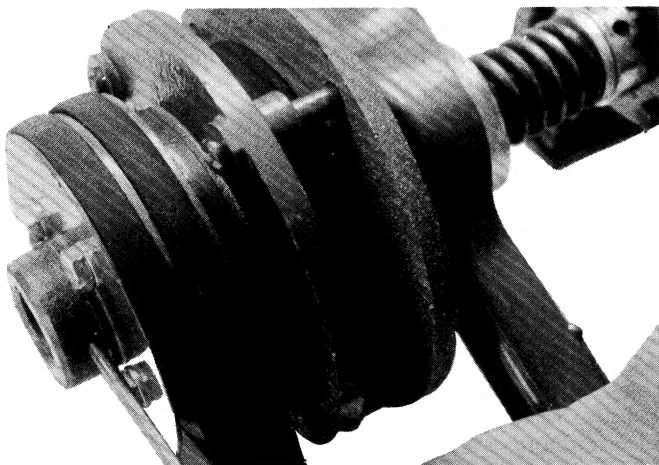
To adjust the brake, tighten the locknut on the disc brake located on the left hand side of the transaxle. The brake should be tightened enough to stop the tractor when the pedal is depressed but still allow the disc to turn free between the brake pads when the pedal is released. See Figure 14.



**FIGURE 14. BRAKE ADJUSTMENT**

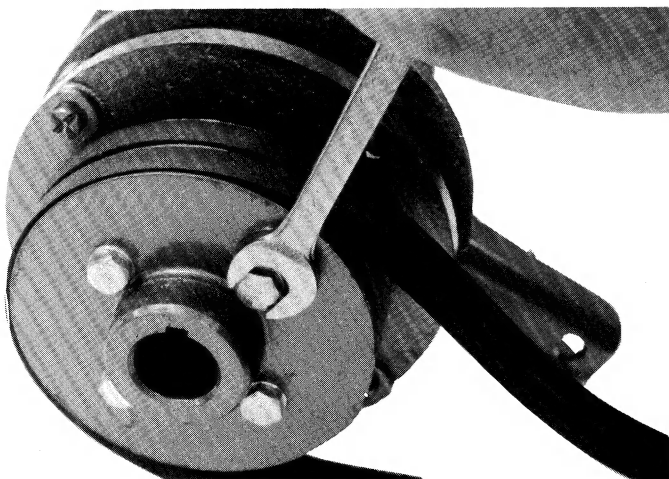
#### **POWER TAKE OFF (PTO) BELT REMOVAL**

1. Drive out the roll pin with a drift and a hammer. See Figure 15.



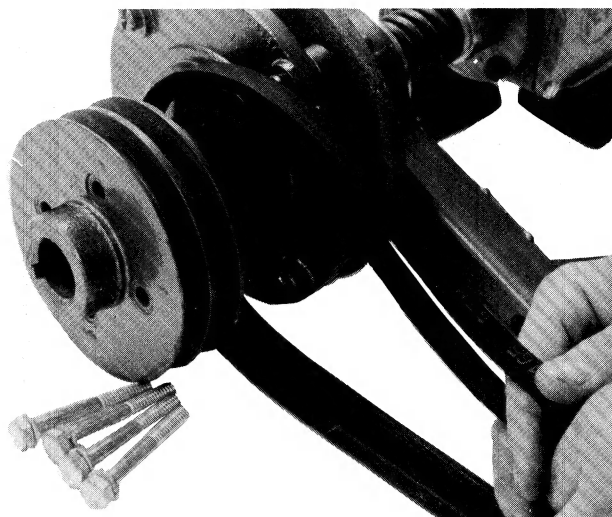
**FIGURE 15. REMOVING ROLL PIN**

2. Remove the four cap screws on the inside of the pulley. See Figure 16.



**FIGURE 16. REMOVE CAP SCREWS**

3. Slide the front half of the pulley forward and the back half of the pulley backwards and drop the belts between the two halves. See Figure 17.



**FIGURE 17. SPLITTING THE PULLEY**

4. Remove the belt guard on the PTO Spindle and remove the old belts.
5. Reassemble in reverse order with two matched belts. Adjust the lower belt guard so it is about 1/8" away from the belts when the PTO Lever is engaged.

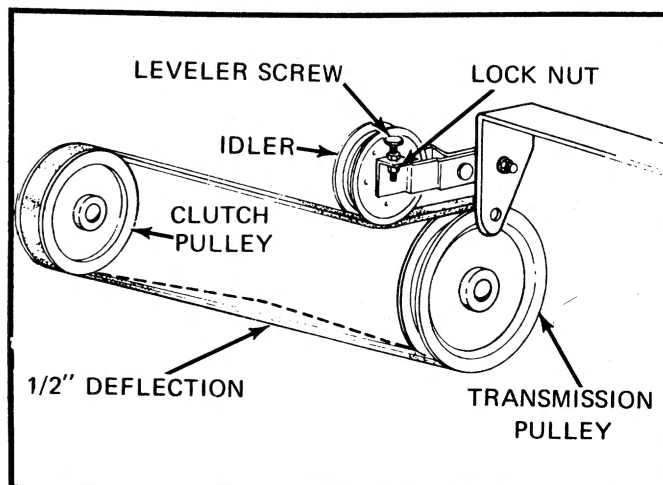
#### **NOTE**

A piece of cardboard can be used as a feeler gauge to adjust the lower belt guard.

#### **TRANSMISSION BELT**

**ADJUSTMENT**—The tension of the belt is increased by **UNSCREWING** the leveler screw until you obtain a 1/2" deflection on the belt when you apply 10 pounds of force midway between the transmission pulley and the pulley. Lock leveler in place by tightening the lock nut.

**REMOVAL**—Screw the leveler screw all the way in until the idler is loose and remove the belt. See Figure 18.



**FIGURE 18. TRANSAXLE BELT**



### STARTER—GENERATOR BELT

If the starter-generator turns over and the engine does not turn over or there is a high pitched squeal when the starter-generator is turned on, it is an indication of a loose belt.

#### NOTE

The starter-generator belt should be checked for proper adjustment after the first 10 hours of operation.

**ADJUSTMENT**—To tighten, loosen the bolt in the bracket slightly, loosen the belt in the adjusting strap and swing the starter-generator away from the engine until the belt is tight. (Belt should deflect  $1/4"$  when depressed with your thumb.) Tighten all bolts. See Figure

**REMOVAL**—Follow same procedure as above except when the bolts on the bracket and adjusting strap are loose, swing the starter-generator towards the engine until the old belt can be removed and replaced. Follow the above procedure for tightening the new belt. See Figure

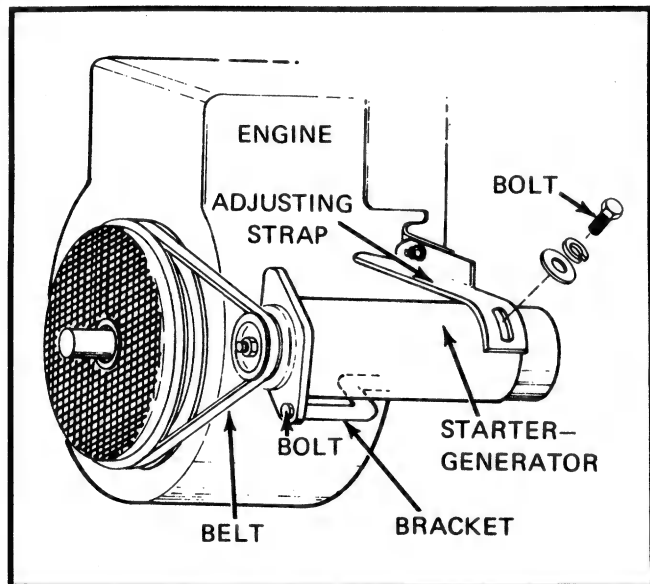


FIGURE 19. STARTER-GENERATOR BELT

### WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principles have been used to determine the caster and camber on the tractor.

The front wheels should toe-in  $1/8$  inch.

To adjust the toe-in follow these steps.

1. Remove the elastic locknut and lift the tie rod end from the wheel bracket.
2. Loosen the hex jam nut on the rod.
3. Adjust the tie rod assembly for correct toe-in.

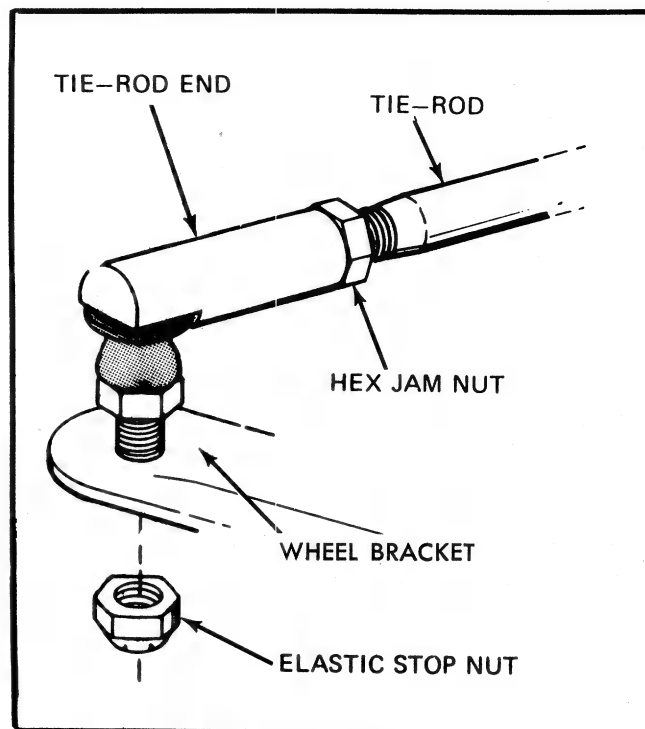


FIGURE 20. TIE ROD END

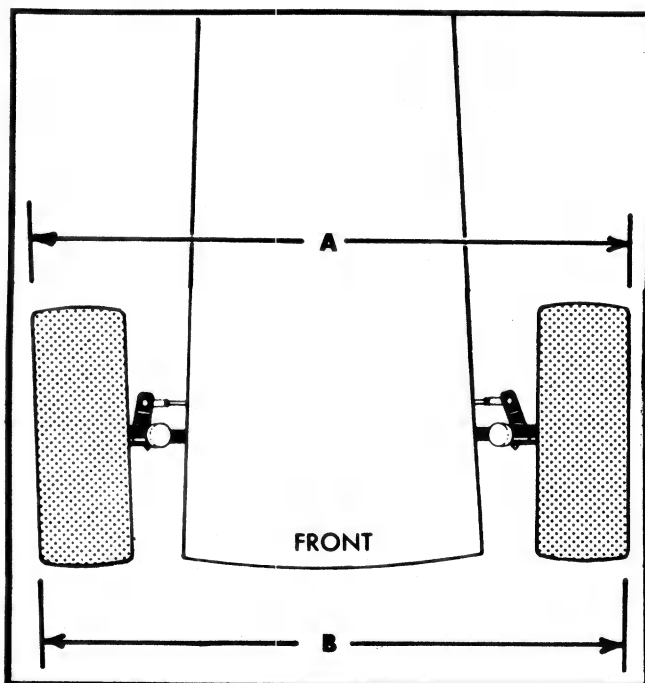


FIGURE 21. TOE-IN ADJUSTMENT

Dimension "B" should be approximately  $1/8"$  less than Dimension "A".

- (A) To increase dimension "B", screw tie rod into tie rod end.
- (B) To decrease dimension "B", unscrew tie rod from tie rod end.
- (C) Reassemble tie rod. Check dimensions. Readjust if necessary.

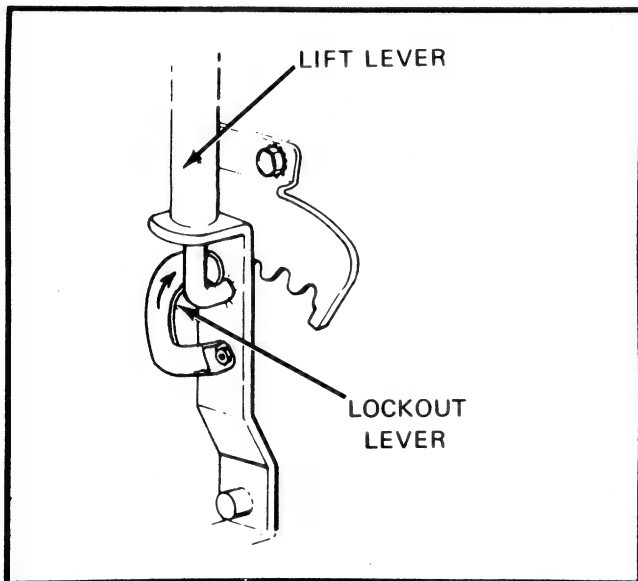


### **NOTE**

To insure safe operation of your unit  
ALL nuts and bolts must be checked  
periodically for correct tightness.

### **LIFT LEVER LOCKOUT**

The lift lever, located on the right hand side of the tractor, is used to raise and lower the attachments. A lockout lever is provided to keep the ratchet from engaging. The lockout is used on the snow blade and snow thrower so it is free floating and the lockout **MUST** be used when the electric lift kit is installed. See Figure 22.



**FIGURE 22. LOCKOUT LEVER**

### **BATTERY CARE**

**BATTERY FAILURE**—Many times new batteries are returned for charging within a few days or a week after sale. Before returning the battery to the dealer who sold you the tractor, make these following checks:

1. Was the battery fully charged when installed? The dry-pack battery should have been placed on a charger and the specific gravity of the battery should read 1.265 to 1.275 before it was installed in the tractor.
2. Were the battery terminals clean, greased and properly tightened when the battery was installed?
3. Batteries are usually involved in ANY starting failure, however, insufficient hours of driving, worn cables, trouble in the electrical system, corroded connections, slipping drive belt can cause a battery to become discharged without the battery being at fault.

### **SERVICING YOUR BATTERY**

It is alright to use drinking water in your battery, excluding mineral water.

Adding water to a battery cell will lower the specific gravity of the electrolyte. Water should not be added unless the tractor is going to be run immediately during freezing weather.

Maintain electrolyte level in the battery to the level indicated on the top of the battery.

Keep the terminals clean and coated with grease.

### **BATTERY STORAGE**

If your tractor is to be stored during an off-season, the battery should be removed from the tractor, placed in a charger until the specific gravity reads 1.265 to 1.275 and stored at approximately 72° F. Batteries should not be placed directly on cement as this will drain the battery. Recharge to bring the specific gravity to normal before placing it in the tractor after storage.

### **BATTERY REPLACEMENT**

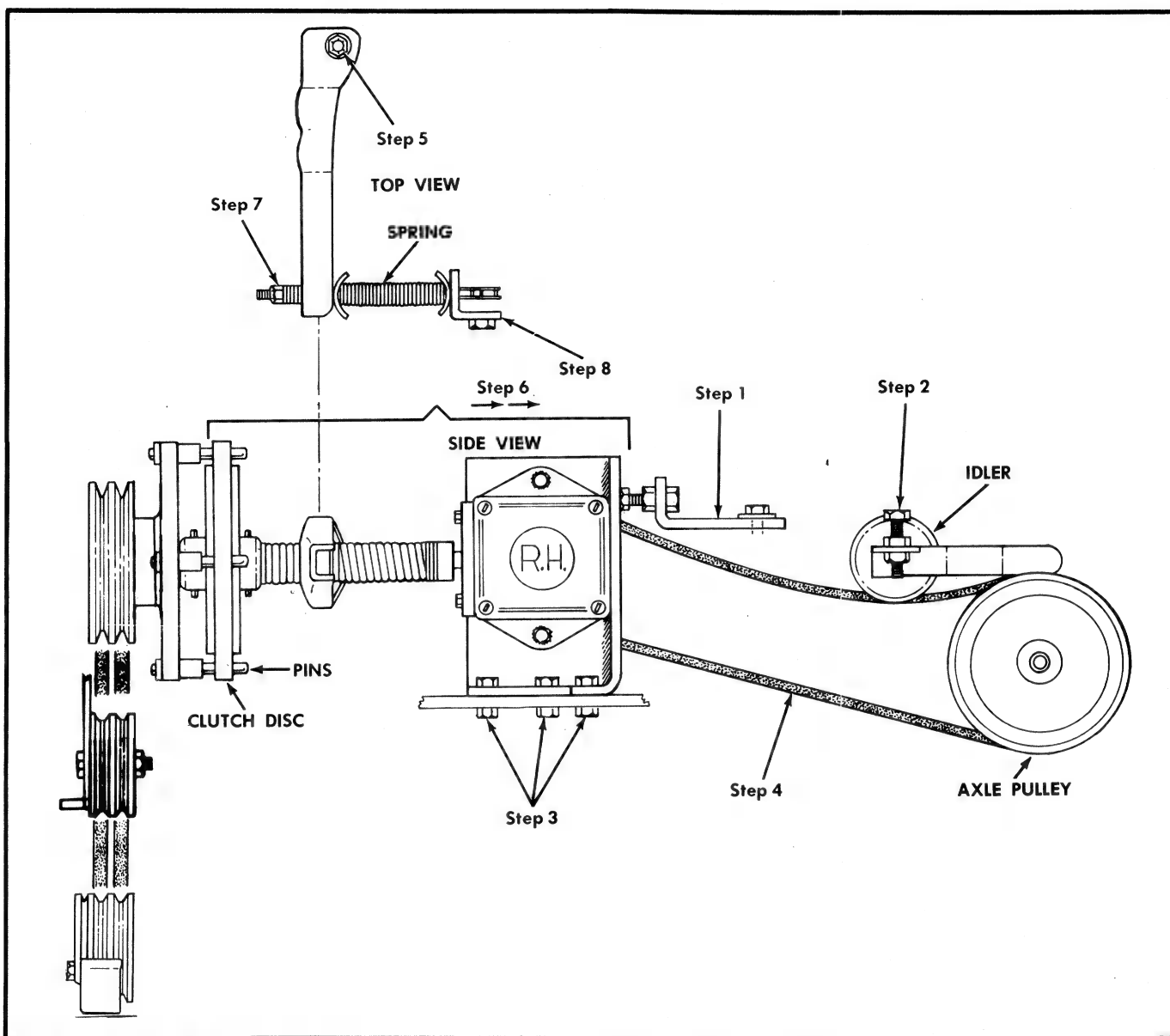
Your battery is a standard automotive type battery and replacements can be purchased locally through your local dealer under part number 725-130.

### **SPECIFICATIONS**

45 Amp. Hours at 20 hours.  
9 plates per cell.  
Splash Proof Vents  
Round automotive type terminals.  
Size: 9 x 6-3/4 x 7-1/2 inches.

### **NOTE**

Size may vary slightly between different makes of batteries. Be sure it will fit in the tractor battery case.



**FIGURE 23. CLUTCH REMOVAL**

**CLUTCH REMOVAL** (Refer to Figure 23) Preparation: Before working on the tractor, remove the spark plug from the engine and turn the steering wheel all the way to the left.

Place the PTO Lever in the disengaged position. See Figure 8.

Step 1. Remove the support bracket behind the clutch.

Step 2. Loosen the belt tightener on the idler so the belt is slack.

Step 3. Remove the four screws holding the rear of the clutch in place.

**NOTE**

A reinforcement plate is under the screws.

Step 4. Remove the belt.

Step 5. Remove the elastic locknut and shoulder bolt.

**NOTE**

Use a 1/4" allen wrench on the shoulder bolt.

Step 6. Push the clutch assembly to the rear of the tractor until the pins clear the clutch disc, then move the clutch towards the left side of the tractor.

Step 7. Remove the elastic locknut and all the washers from the stud. The large cup washers and spring will be loose now and can be set aside.

Step 8. Remove the two screws holding the "el" bracket to the frame.

Step 9. Remove the clutch assembly from the tractor.

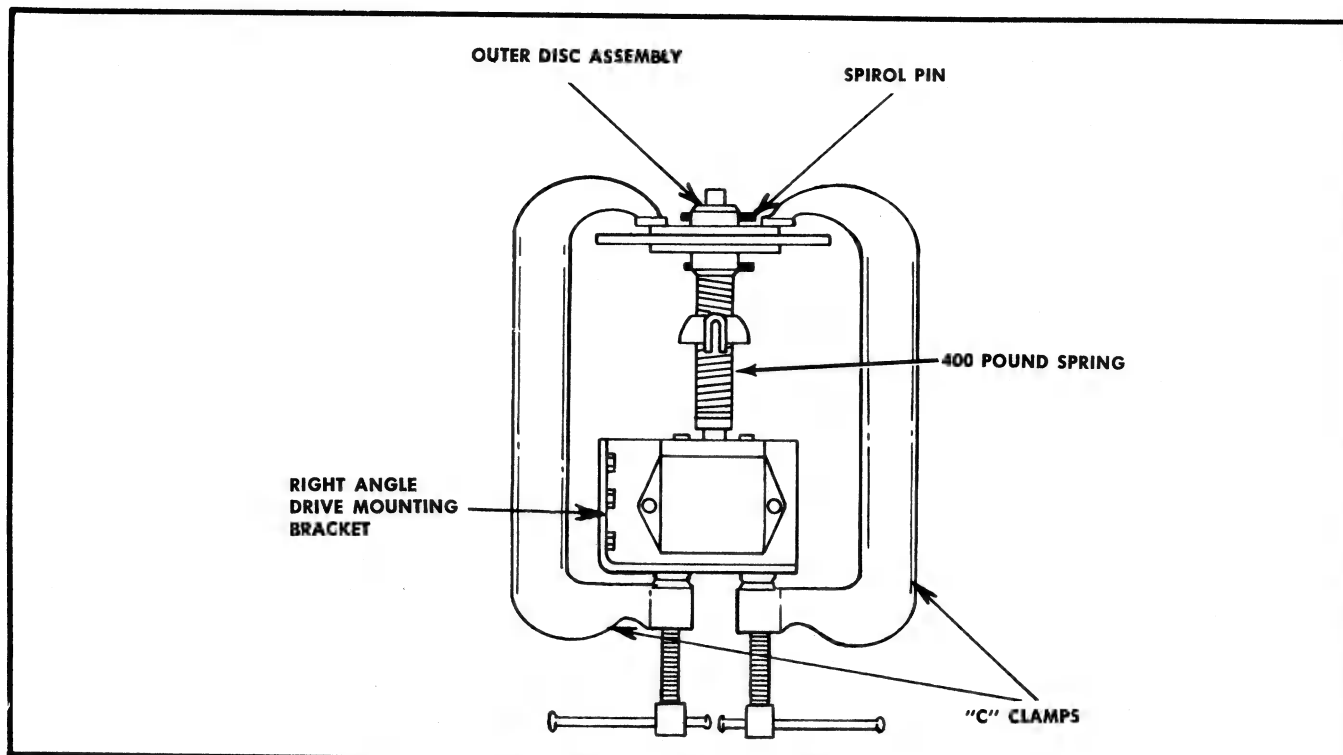


FIGURE 24. CLUTCH DISASSEMBLY

### CLUTCH REPAIR

The clutch can be replaced as an entire unit or it can be disassembled and rebuilt.

#### WARNING

The large spring on the clutch is compressed to 400 pounds pressure and extreme care should be taken during disassembly.

#### NOTE

Apply the pressure to the outer disc assembly.  
Drive the spirol pin out with a punch.  
Slowly release the pressure.  
Removal of the second spirol pin will free the other parts for inspection or replacement.

## LUBRICATION

Your tractor has been engineered to give you years of trouble-free service, however, by following these simple lubrication procedures, you can greatly extend the life of your tractor.

### 1 ENGINE LUBRICATION

DO NOT MIX OIL WITH GASOLINE

#### OIL RECOMMENDATIONS (4 PINTS)

WINTER  
(Below 40°F.)  
Use SAE 5W-20

SUMMER  
(Above 40°F.)  
Use SAE 30

Any high quality detergent oil having the American Petroleum Institute classification "For Service MS" can be used in your Briggs & Stratton engine. Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits.

Check before starting and after every 5 hours of operation. BE SURE OIL LEVEL IS MAINTAINED.

Change oil after first 5 hours of operation. Thereafter change oil every 25 hours of operation. Remove the oil drain plug. Drain oil while engine is warm. Remove oil filler cap or plug and refill with new oil. Replace oil filler cap or plug. Add oil regularly after each 5 hours of operation.

The above oil recommendations are the result of extensive testing. No special additives should be used.

### 2 TRANSAXLE

Lubricate with 4 pints of SAE E. P. 90 oil. Refill if below upper plug level. Prelubricated at factory.

The following grease fittings should be lubricated every 25 hours with an automotive multi-purpose grease.

### 3 POWER TAKE OFF (REAR)

Lubricated at the factory and requires no further lubrication.

### 4 DECK PIVOT BAR

2 fittings—one each side of the tractor

### 5 STEERING GEAR

1 fitting—center of tractor

### 6 AXLE PIVOT

1 fitting—center of tractor

### 7 KING PIN

2 fittings—one each side of the tractor

### 8 WHEEL BEARINGS

2 fittings—one each side of the tractor

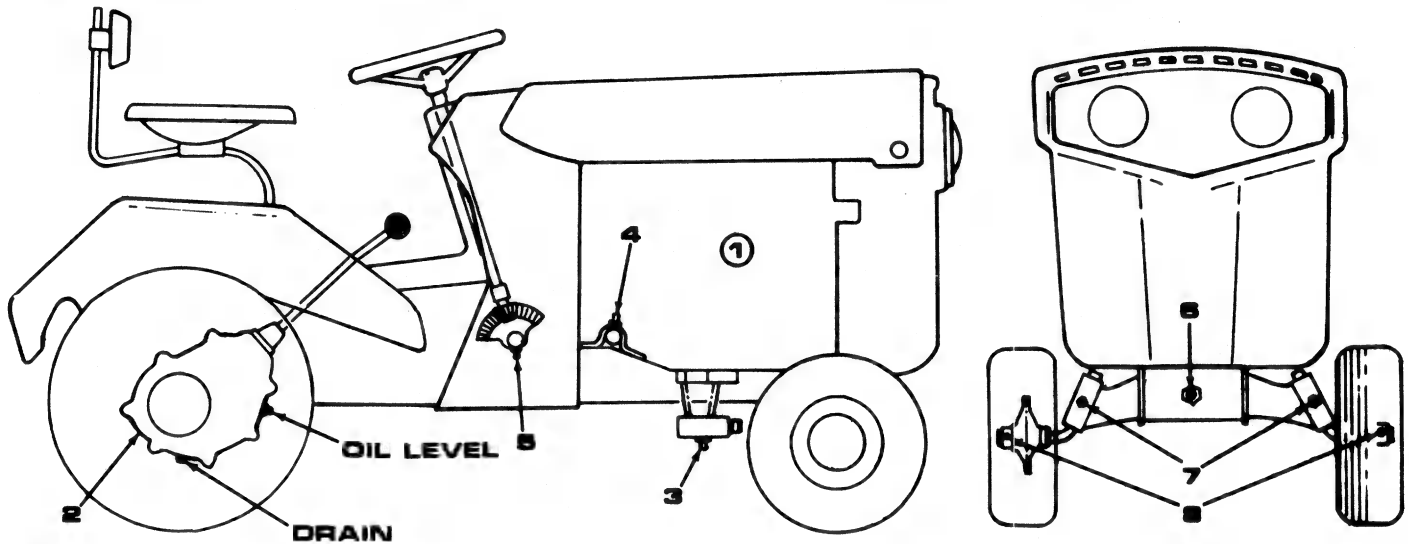


FIGURE 25. LUBRICATION POINTS

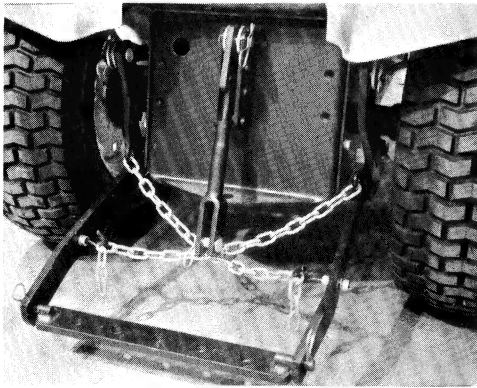
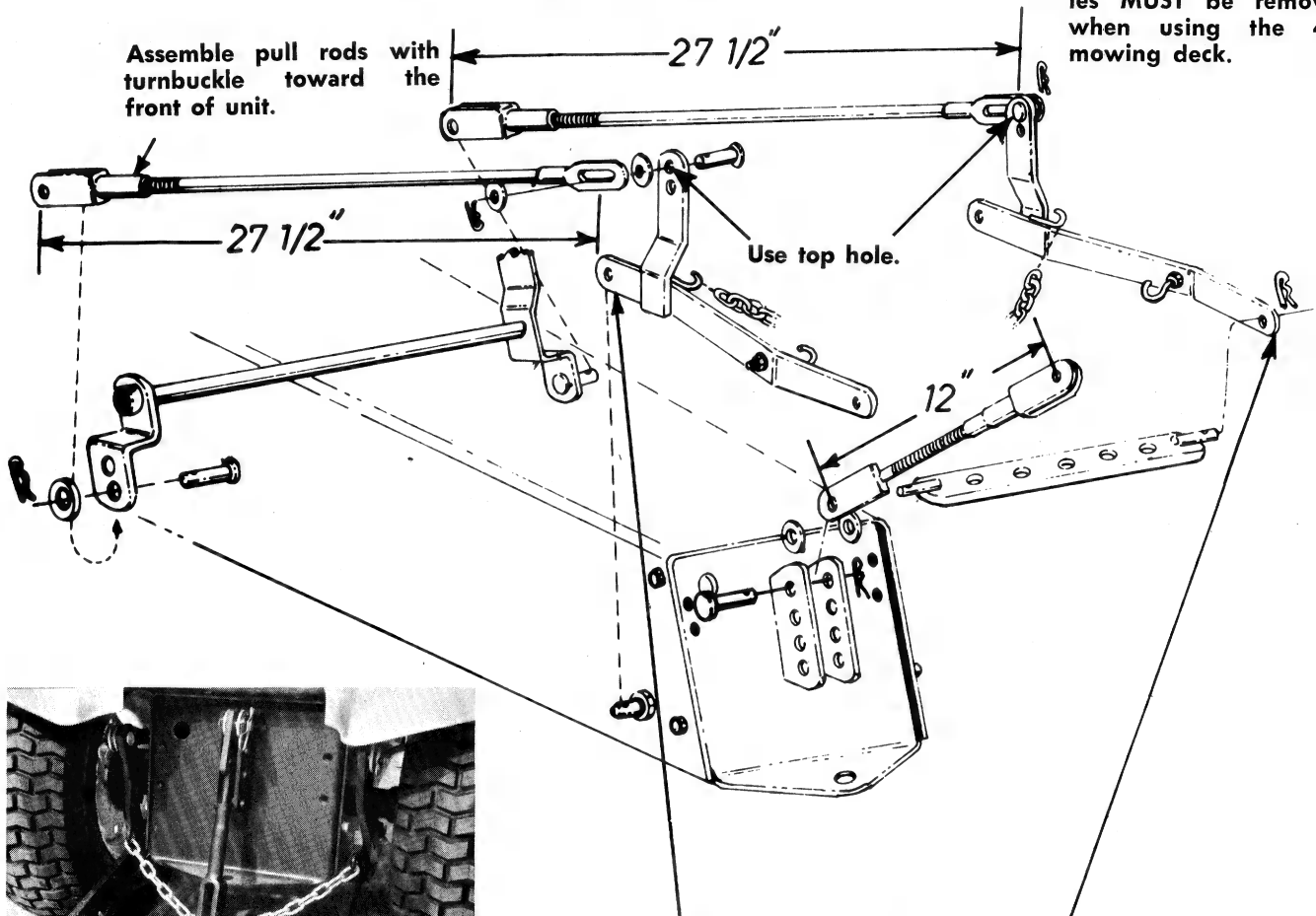
# Assembly of Three-Point Hitch

## DIMENSIONS FOR ASSEMBLY OF 3-POINT HITCH ON THE GEAR DRIVEN TRACTOR

These dimensions are general and can be set where ever you like. The important thing is that you assemble the pull rods and draft bars as shown only.

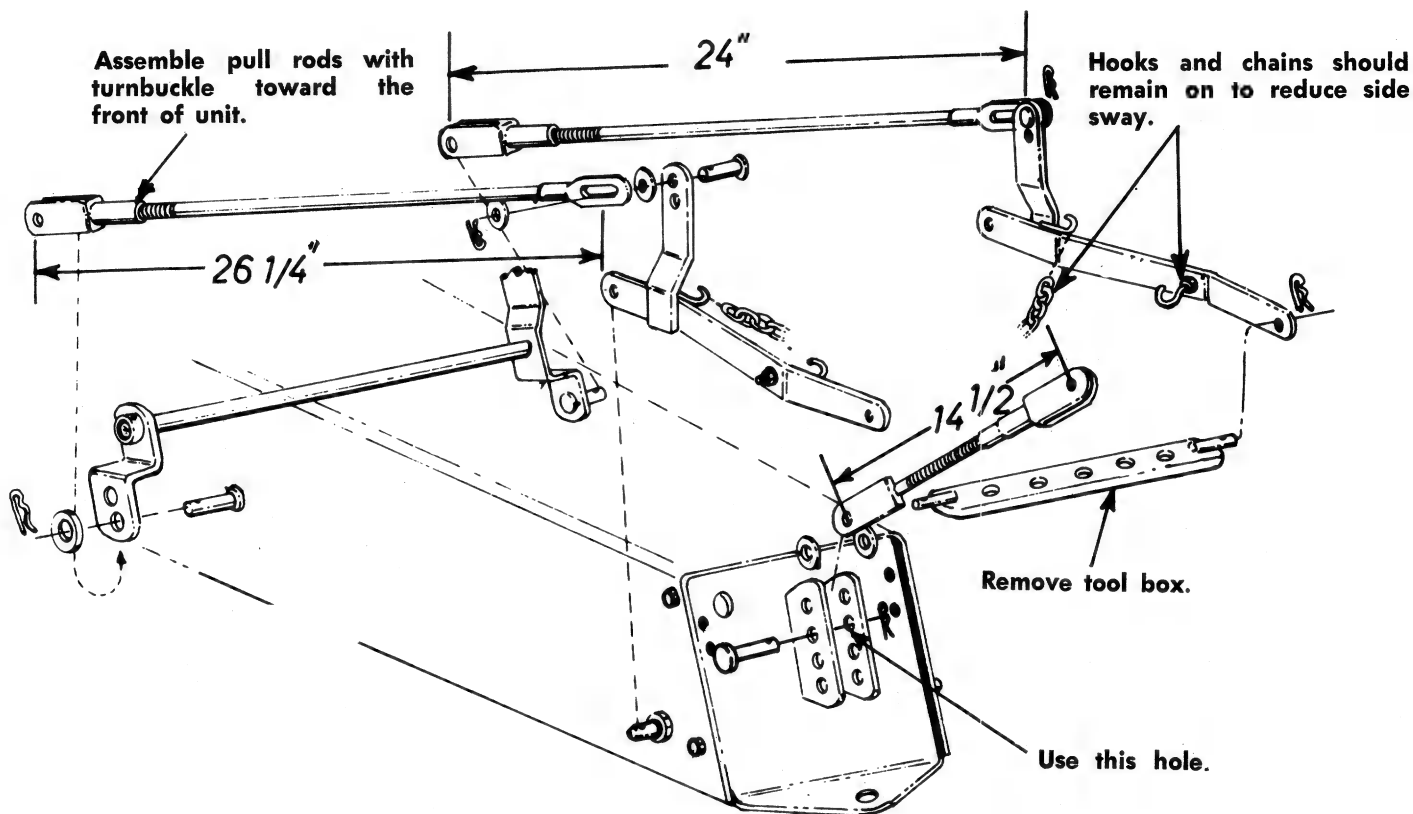
### NOTE

Pull rods and turn buckles **MUST** be removed when using the 42" mowing deck.

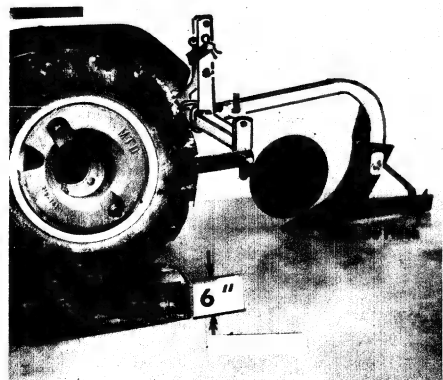


# **DIMENSIONS FOR ASSEMBLY OF 12" PLOW (194-920A) OPTIONAL EQUIPMENT ON THE GEAR DRIVEN TRACTOR**

**NOTE:** Using these dimensions you should plow approximately 6" deep and have 5" ground clearance.



**Use second hole on mast of plow.**

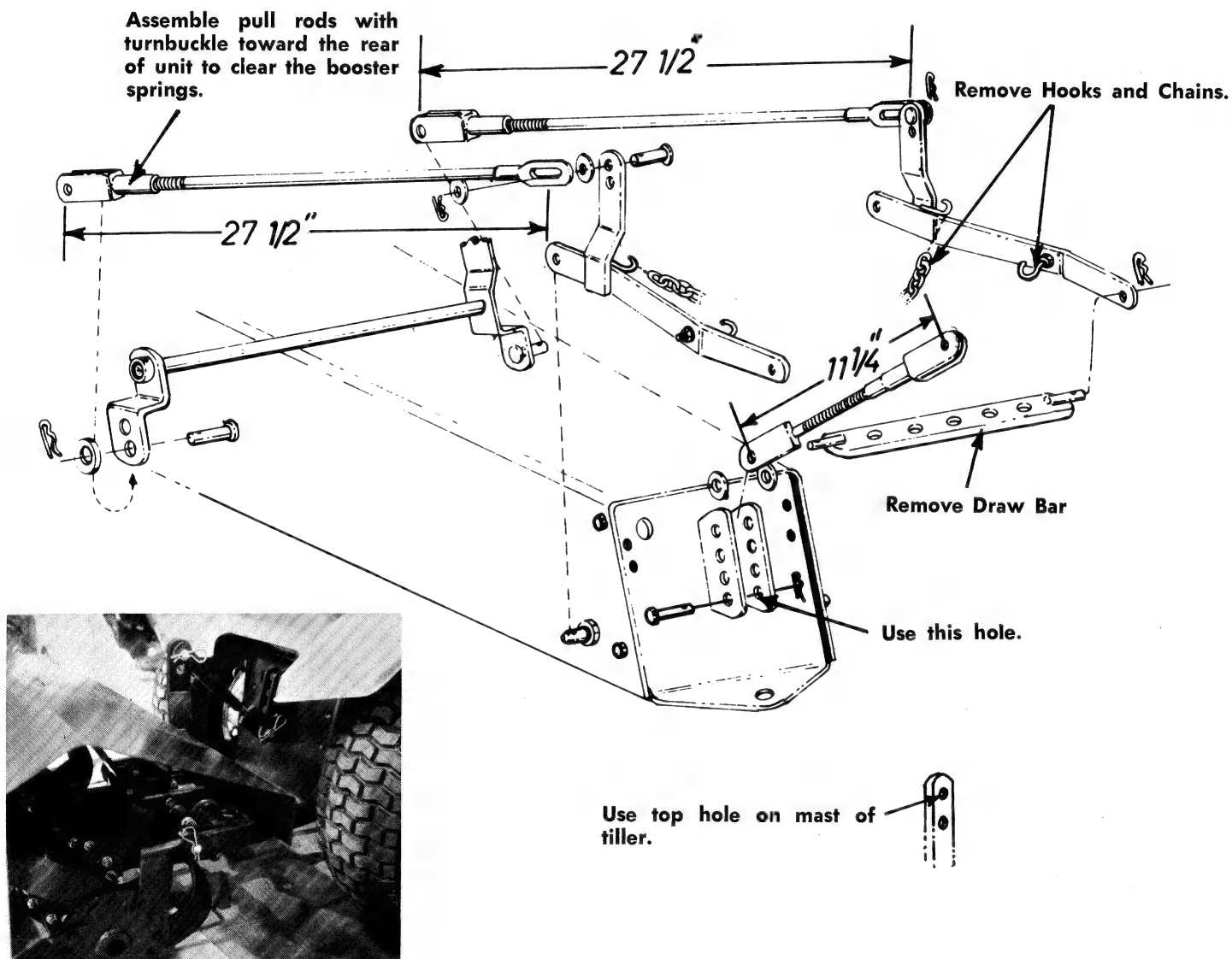


**Block up left rear wheel according to how deep you wish to plow. The type of soil and working conditions may require a slight change in the above setting.**

**← Example.**

**DIMENSIONS FOR ASSEMBLY OF ROTARY TILLER ATTACHMENT (194-966A) OPTIONAL EQUIPMENT ON  
GEAR DRIVEN TRACTOR**

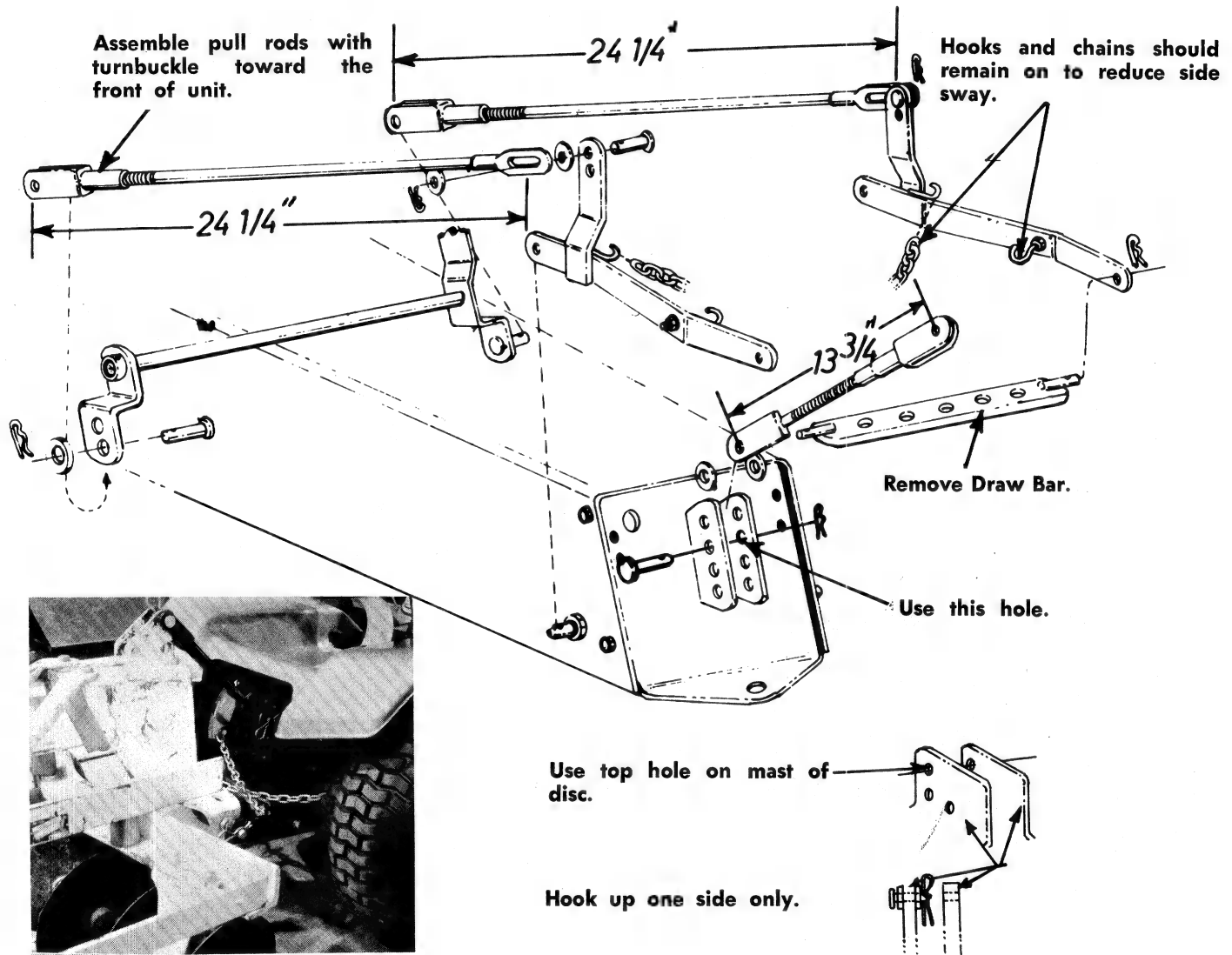
**NOTE:** Using these dimensions you should till approximately 4" deep, ground clearance 6" and 1/4" clearance between drive shaft and transaxle.





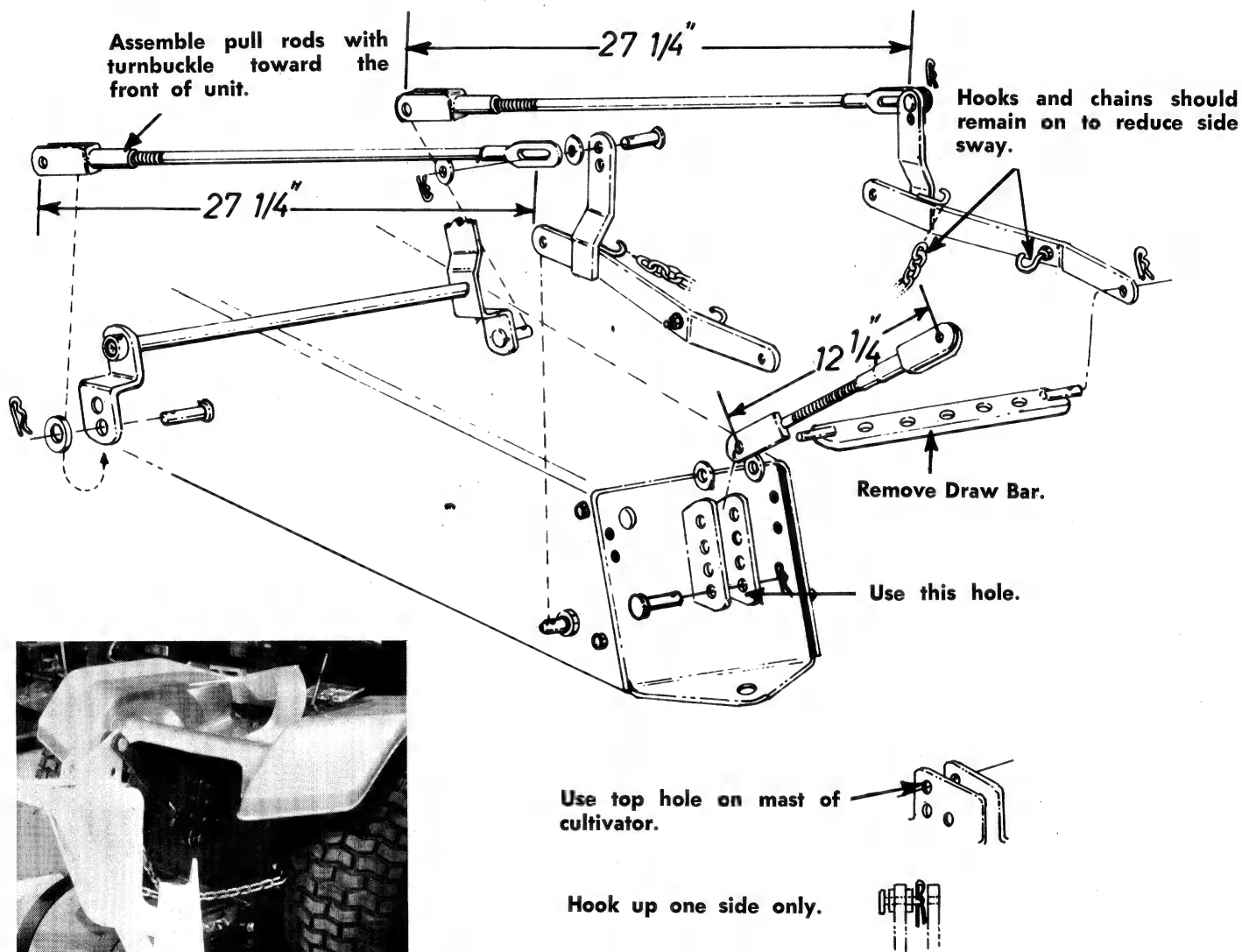
**DIMENSIONS FOR ASSEMBLY OF DOUBLE DISC (194-921A) OPTIONAL EQUIPMENT ON THE  
GEAR DRIVEN TRACTOR**

**NOTE:** Using these dimensions you should disc approximately 4" deep and have 5" ground clearance.



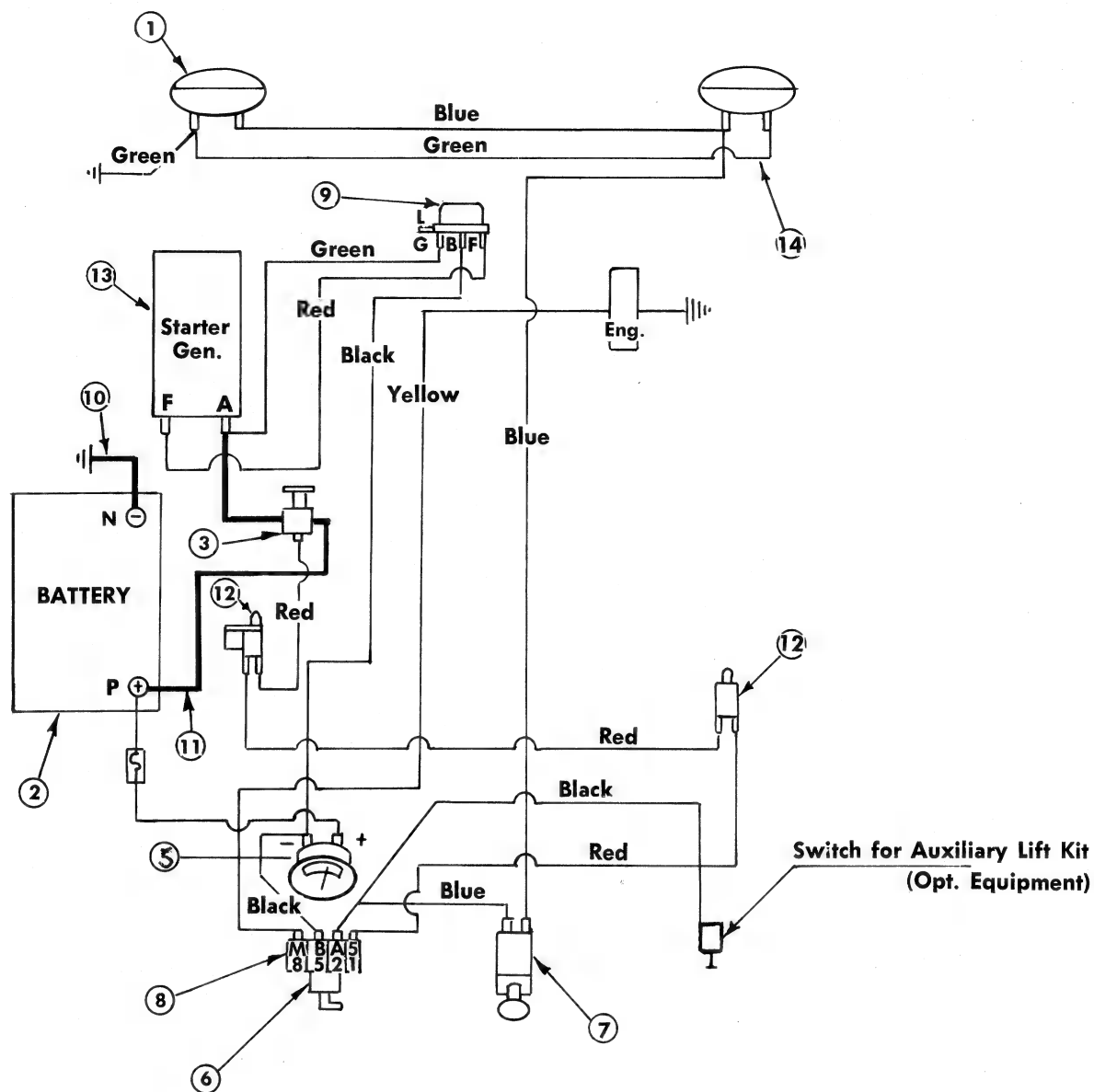
**DIMENSIONS FOR ASSEMBLY OF SPRING TOOTH CULTIVATOR (194-922A) OPTIONAL EQUIPMENT ON THE  
GEAR DRIVEN TRACTOR**

**NOTE:** Using these dimensions you should cultivate approximately 4" deep and have 3" ground clearance.



# TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	<p>A. Check for a blown fuse in the wire leading from the positive terminal of the battery.</p> <p>B. Before checking the safety system further, be sure the clutch control and the blade control are disengaged; only the starting system is being checked. Therefore remove the spark plug lead and ground it to prevent the engine from starting.</p> <p>C. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal (coil primary) of the solenoid. If the engine cranks, the problem is in the safety system.</p> <p>D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 gauge) and a small wire (#18 gauge) attached to it.</p> <p>E. Check all wires and cable for tightness.</p> <p>F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid.</p> <p>G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine.</p>
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	<p>Spark plug lead wire disconnected.</p> <p>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.</p> <p>NOTE: Use insulated pliers to hold the spark plug wire.</p>
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in <b>Engine Manual</b> .
	Carburetor improperly adjusted.	Review paragraph <b>Carburetor Adjustment</b> .
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See CAUTION following step 1 in paragraph <b>Operation</b> .
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud. Grass and dirt in engine shroud. Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.

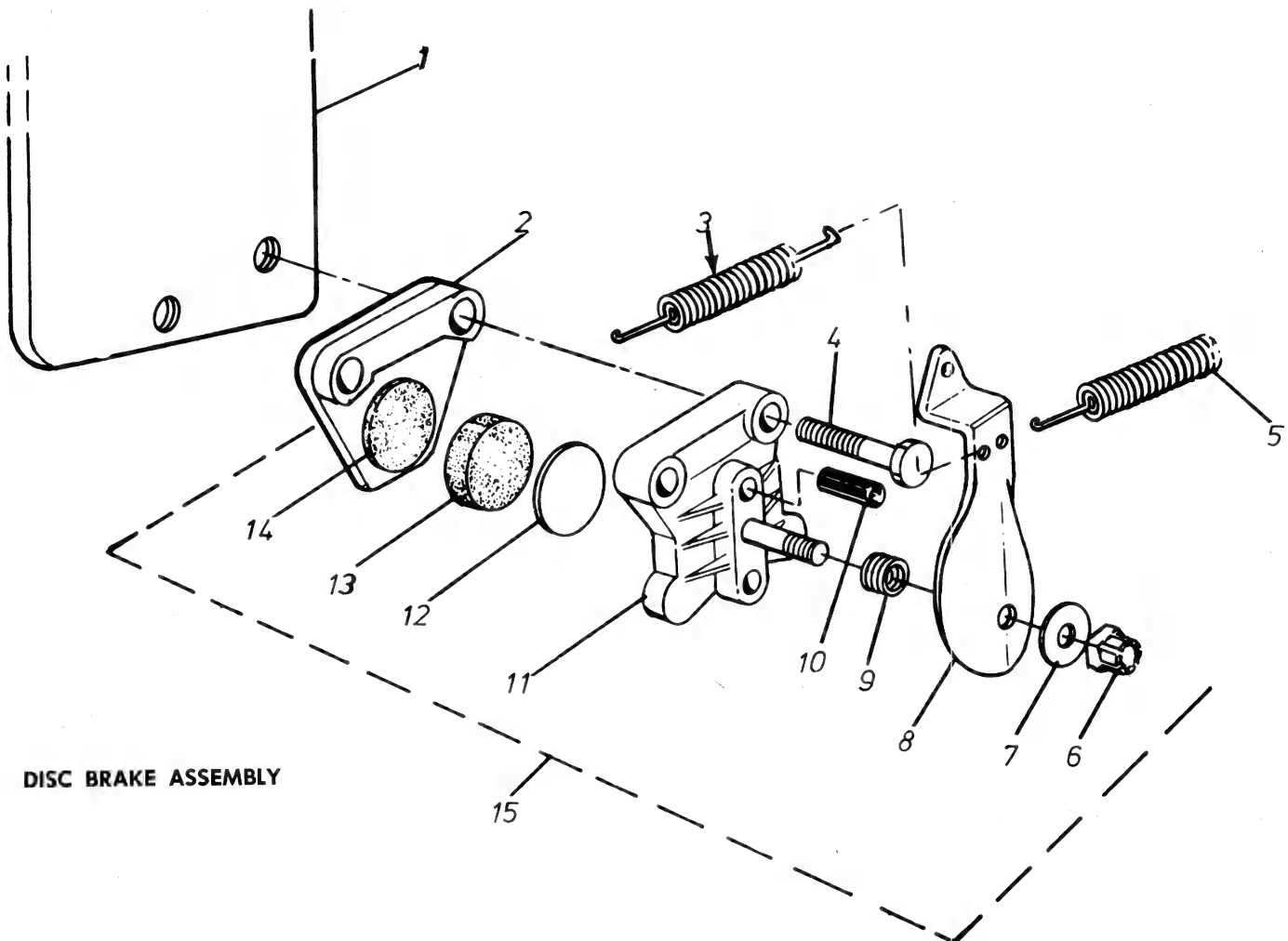


**PART LIST FOR SCHEMATIC OF ELECTRICAL SYSTEM  
10 AND 16 H.P. TRACTOR**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-222		Head Light	
2	725-130		Battery	
3	725-270		Solenoid	
4				
5	725-119		Ammeter	
6	725-267		Key Switch	
7	725-202		Light Switch	
8	725-275		Wire Harness	
9	725-390		Voltage Regulator	
10	725-139		Battery Ground Wire	
11	725-258		Bat. to Sol. & Bat. to Amp. Meter	
12	725-268		Safety Switch	
13	725-144		Starter and Generator	
14	725-204		Electric Wire	

\*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size, as shown on parts list.

# 144-860A 144-960A



DISC BRAKE ASSEMBLY

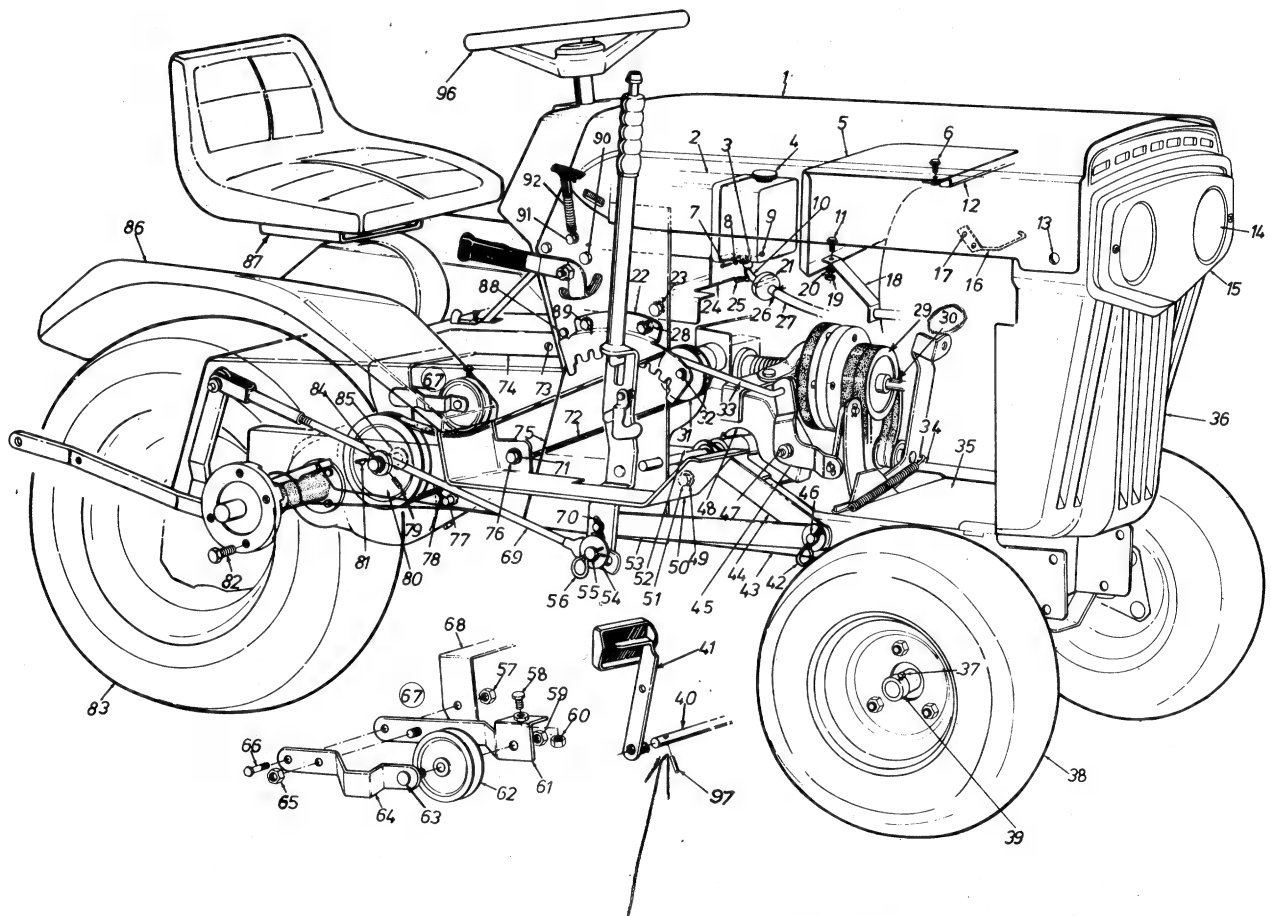
## PARTS LIST FOR DISC BRAKE ASSEMBLY MODELS 144-860A AND 144-960A

REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	10385		Transaxle Mounting Bracket Ass'y.	
2	HH-12-04338		Casting-Carrier Side	
3	732-245		Spring (Brake)	
4	710-442		Hex Hd. Cap Scr. 5/16-18 x 1-1/2" Lg.*	
5	732-199		Brake Return Spring	
6	HH-02-03631		Lock Nut	
7	HH-03-03032		Thrust Washer	
8	HH-18-03525		Cam Lever	
9	HH-06-03031		Compression Spring	
10	HH-05-03034		Push Pin	
11	HH-12-03357		Casting Cam Side	
12	HH-03-03033		Back-Up Disc.	
13	HH-15-03077		(Cam Side) 1.110" Dia. x .370 thk.	
14	HH-15-03074		(Car. Side) 1.110" Dia. x .245 thk.	
15	761-132		Caliper Disc Brake Ass'y. Comp.	

\*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

# 144-860A 144-960A

IF YOU WRITE TO US ABOUT THIS ARTICLE  
OR IF YOU ORDER REPLACEMENT PARTS AL-  
WAYS MENTION THIS MODEL & SERIAL NO  
MODEL



ONE END THREADED  
 $\frac{1}{2}$ " X 20 THD  
BRAKE BRKT LEVER WELDED TO THIS PART  
ROLL PIN HOLE IN OTHER END  
RIGHT HAND SIDE OF TRACTOR

# **PARTS LIST FOR RIGHT HAND VIEW 144-860A AND 144-960A**

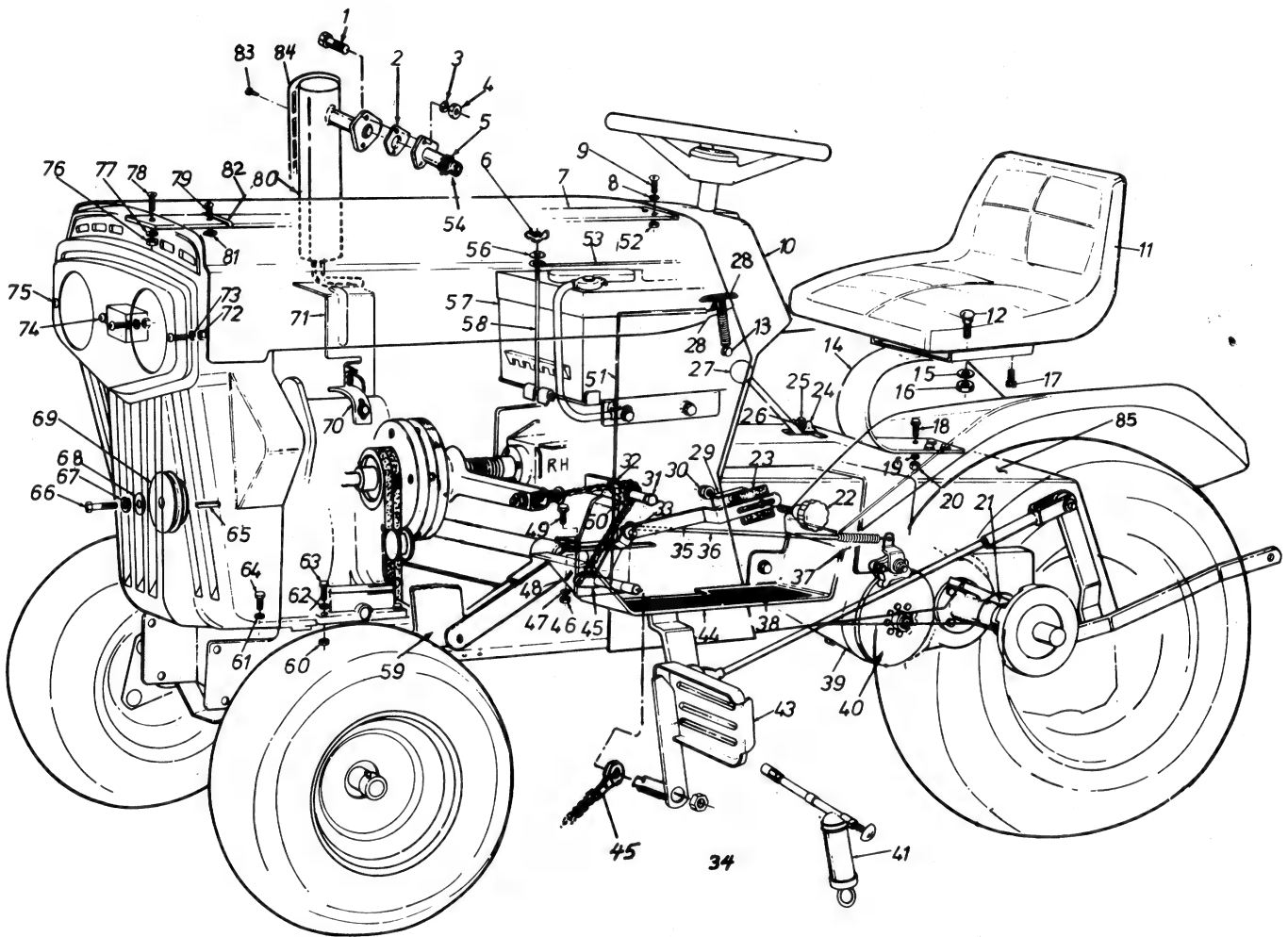
REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	12290	—459	Hood	N	51	710-216		Hex Hd. Cap Scr. 3/8-16 x .75" Lg.	
2	723-182		Gas Tank With Strap		52	9403		Gear Box Mounting Plate Ass'y.	
3	737-112		Rubber Grommet .50" I.D.		53	9479		Lift Bar	
4	723-155		Gas Gauge		54	7387		Flat Washer	
5	9531	—459	Heat Shield Ass'y.					.640 I.D. x 1-3/4" O.D. x 3/16"	
6	710-211		Hex Sems Scr. 1/4-20 x .75" Lg.*		55	711-308		Clevis Pin .500" Dia.	
7	710-472		Truss Hd. Mach. Scr.		56	714-117		Internal Cotter Pin 5/8" Dia.	
			1/4-20 x 1.25" Lg.*		57	712-798		Hex Nut 3/8-16 Thd.*	
8	736-329		Spring Lock Washer 1/4" Scr.*		58	710-307		Leveler Scr. 3/8-16 x 1.50 Lg.	
9	712-492		Square Nut 1/4-20 Thd.*		59	712-798		Hex Nut 3/8-16 Thd.*	
10	723-152		Gas Hose		60	712-798		Hex Nut 3/8-16 Thd.*	
			1/4" I.D. x 1/2" O.D. x 1-1/2" Lg.		61	9446		Idler Bracket Ass'y.—L.H.	
11	710-211		Hex Sems Scr. 1/4-20 x .75" Lg.		62	711-306		Deck Idler	
12	9529		Mounting Bracket Ass'y.		63	738-150		Shoulder Bolt	
13	710-166		Truss Hd. Mach. Scr.		64	10116		Idler Bracket—R.H.	
			1/4-20 x 1.00" Lg.*		65	712-798		Hex Nut 3/8-16 Thd.*	
14	725-222		Head Light		66	710-342		Hex Hd. Cap Scr.	
15	9516	—459	Head Lamp Bezel					3/8-16 x 1.25" Lg.*	
16	9538		Hood Stop		67	9583		Drive Bet Idler Ass'y. Complete	
17	728-123		Pop Rivet .188" Dia. x .402		68	10385		Transaxle Mounting Bracket Ass'y.	
18	11578		Angle Bracket		69	10923		Lift Pull Rod Ass'y.	
19	712-287		Hex Nut 1/4-20 Thd.*		70	714-121		Cotter Pin 5/32" Dia. x 1.00" Lg.*	
20	736-329		Spring Lock Washer 1/4" Scr.*		71	736-169		Spring Lockwasher 3/8" Scr.	
21	723-154		Gas Filter		72	754-124		"V"-Belt A Sect 57,375" Lg.	
22	9433		Index Bracket		73	710-351		Truss Hd. Mach. Scr. B-Tapp.	
23	736-169		Spring Lock Washer 3/8" Scr.*					#10 x .50" Lg.	
24	12177		Gas Tank and	N	74	9580		Center Console Ass'y.	N
			Battery Mounting Plate Ass'y.		75	12180		Frame Side Plate—R.H.	
25	723-159		Gas Valve		76	710-253		Hex Hd. Cap Scr.	
26	723-157		Hose Clamp—1/2" O.D. Hose					3/8-16 x 1.00" Lg.*	
27	723-178		Gas Hose		77	711-310		Clevis Pin .500" Dia.	
			1/4" I.D. x 1/2" O.D. x 8-1/2" Lg.		78	714-117		Internal Cotter Pin 5/8" Dia.	
28	712-798		Hex Nut 3/8-16 Thd.*		79	710-356		Set Scr. 5/16-18 x .50" Lg.	
29	717-229		Drive Plate and P.T.O. Pulley Ass'y.					Cup Point	
30	714-118		Square Key 1/4" x 1/4" x 1.50" Lg.		80	10593		Transaxle Drive Sheave	
31	10572		Right Angle Gear Box		81	714-126		#9 Hi-Pro-Key	
			Sheave Assembly					3/16 x 3/4" Dia. Hdn.	
32	716-111		Snap Ring for .875" Dia. Shaft		82	710-336		Wheel Hub Bolt	
33	711-793		P.T.O. Clutch Rod					7/16-20 x 1.19" Lg.	
34	10384		Frame Rail Ass'y.—L.H.		83	734-320		Rear Wheel Ass'y. Comp.	
35	9511		Plate Ass'y.—Front Frame					23.0 x 9.50	
36	719-209		Grille			734-279		Rim Ass'y. Only—Rear Wheel	
37	710-356		Square Hd. Set Scr.			734-322		Tire Only—Rear Wheel	
			5/16-18 x .50" Lg. Cup Point					23.0 x 9.50	
38	734-525		Front Wheel Ass'y. Comp.		84	716-101		Snap Ring for .750" Dia. Shaft	
			16.0 x 6.50		85	736-180		Flat Washer	
	9262		Front Wheel Rim Ass'y.—Only					.812 I.D. x 2.00 O.D. x .060	
	734-526		Tire Only 16.0 x 6.50—		86	9493	—459	Rear Fender	
			Front Wheel		87	10807		Seat Bracket	
39	748-386		Collar 3/4" I.D.		88	710-258		Hex Hd. Cap Scr. 1/4-10 x .62" Lg.*	
40	11319		Brake Shaft Ass'y. —17.37 Lg		89	710-216		Hex Hd. Cap Scr. 3/8-16 x .75" Lg.*	
41	10714		Brake Pedal Ass'y.		90	710-253		Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*	
42	714-117		Internal Cotter Pin 5/8" Dia.		91	728-111		Pop Rivet. 125" Dia. x .358	
43	9402		Frame Rail Ass'y.—R.H.		92	723-186		Hood Latch	
44	9457		Lift Pivot Bar Ass'y.		93	710-473		Truss Hd. Mach. Scr.	
45	11344		Idler Crank					#10-24 x .50" Lg.*	
46	711-310		Clevis Pin .500" Dia.		94	736-147		External Lockwasher #10 Scr.*	
47	738-149		Shoulder Scr. 5/8" Dia. 3/8-16 Thd.		95	712-425		Square Nut #10-24 Thd.*	
48	10450		Clutch Yoke Pivot Bracket Ass'y.		96	723-185		Steering Wheel	
49	736-169		Spring Lock Washer 3/8" Scr.		97	715-118		Spring Pin Spirol	
50	9582		Foot Pad Ass'y.—R.H.					5/16" Dia. x 1.75" Lg.*	

or faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.  
 (459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).



# 144-860A 144-960A

IF YOU WRITE TO US ABOUT THIS ARTICLE  
OR IF YOU ORDER REPLACEMENT PARTS AL-  
WAYS MENTION THIS MODEL & SERIAL NO  
MODEL



LEFT HAND SIDE OF TRACTOR

# **PARTS LIST FOR LEFT HAND VIEW 144-860A AND 144-960A**

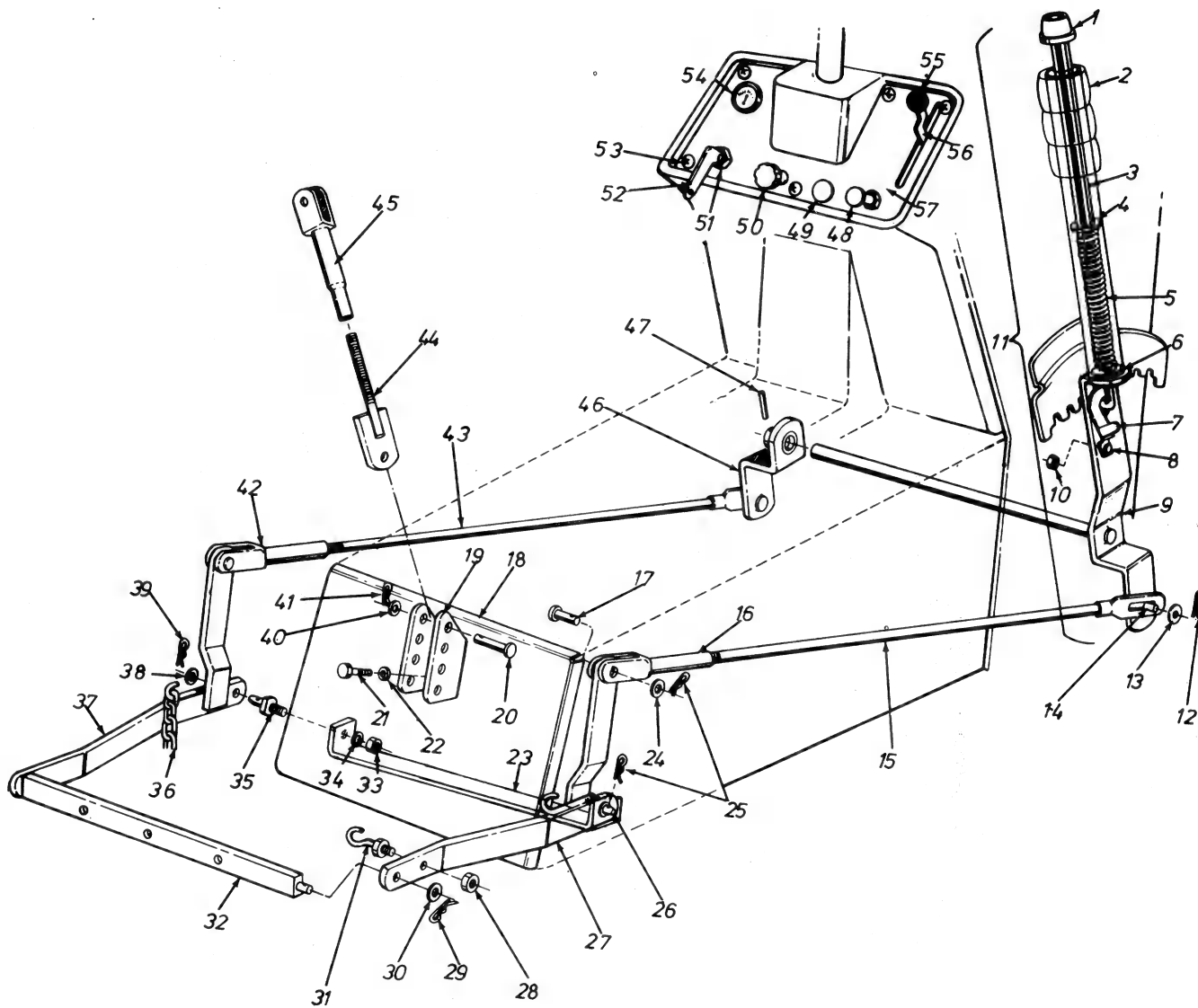
REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-152		Hex Hd. Cap Scr. 3/8-24 x 1.00" Lg. Heat Treated		46	712-267		Hex Nut 5/16-18 Thd.*	
2	721-127		Gasket		47	736-119		Spring Lock Washer 5/16" Scr.*	
3	736-169		Spring Lock Washer 3/8" Scr.*		48	714-121		Cotter Pin 5/32" Dia. x 1.00" Lg.*	
4	712-241		Hex Nut 3/8-24 Thd.*		49	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
5	712-250		Conduit Lock Nut—Heavy Duty		50	723-168		Sprocket Idler 10 Teeth	
6	712-109		Wing Lock Nut 1/4-20 Thd.		51	12179		Frame Side Plate—L.H.	N
7	9576		Grille Brace		52	712-287		Hex Nut 1/4-20 Thd.*	
8	736-329		Spring Lock Washer 1/4" Scr.		53	711-278		Battery Hold Down Rod	
9	710-166		Truss Hd. Mach. Scr. 1/4-20 x 1.00" Lg.		54	11737		Pipe Ass'y.—Inlet Flange	
10	9584		Instrument Panel		56	736-264		Flat Washer .344 I.D. x .62 O.D. x .063	
11	757-203		Seat		57	725-130		12 Volt Battery	
12	710-360		Carriage Bolt 1/2-13 x 1.75" Lg.		58	711-284		Battery Hold Down Studs	
13	710-258		Hex Scr. 1/4-20 x .62" Lg.*		59	10482		Clutch Guard	
14	723-181		Seat Spring		60	712-798		Hex Nut 3/8-16 Thd.*	
15	736-921		Spring Lock Washer 1/2" Scr.*		61	736-169		Spring Lock Washer 3/8" Scr.*	
16	712-206		Hex Nut 1/2-13 Thd.*		62	736-169		Spring Lock Washer 3/8" Scr.*	
17	710-216		Hex Hd. Cap Scr. 3/8-16 x .75" Lg.*		63	710-344		Hex Hd. Cap Scr. 3/8-16 x 1.50" Lg.*	
18	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*		64	710-253		Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*	
19	736-119		Spring Lock Washer 5/16" Scr.*		65	714-119		Square Key 1/4" x 1/4" x .75" Lg.	
20	712-267		Hex Nut 5/16-18 Thd.*		66	710-348		Hex Hd. Cap Scr. 7/16-20 x .75" Lg.*	
21	710-427		Hex Hd. Cap Scr. 3/8-16 x 2.00" Lg.*		67	736-171		Spring Lock Washer 7/16" Scr.*	
22	722-117		Parking Brake Knob		68	736-133		Flat Washer .406 I.D. x 1.25 O.D. x .100	
23	723-183		Serrated Plate		69	10576		Front Sheave	
24	9480		Second Gear—Stop Clip		70	9527		Generator Pivot Bracket	
25	710-106		Hex Hd. Cap Scr. 1/4-20 x 1-1/4" Lg.*		71	9526		Generator Bracket	
26	732-145		Compression Spring		72	712-287		Hex Nut, 1/4-20 Thd.*	
27	720-165		Gear Shift Knob		73	736-329		Spring Lock Washer 1/4" Scr.*	
28	723-296		Hood Latch Ass'y.		74	710-350		Flo Counter-Sunk Mach. Scr. 1/4-20 x 1.00" Lg.	
29	9443		Parking Brake Lock Ass'y.		75	710-346		Oval Counter-Sunk Mach. Scr. 1/4-20 x 1.50" Lg.	
30	712-130		Hex Inserted Lock Nut 3/8-16 Thd.		76	712-287		Hex Nut 1/4-20 Thd.*	
31	710-316		Hex Hd. Cap Scr. 3/8-16 x 3.50" Lg.*		77	736-329		Spring Lock Washer 1/4" Scr.*	
32	9417		Clutch Sprocket Support Bracket		78	710-350		Flo Counter-Sunk Mach. Scr. 1/4-20 x 1.00" Lg.	
34	712-200		Hex Inserted Lock Nut 1/2-20 Thd.		79	710-473		Truss Mach. Scr. #10-24 x .50" Lg.	
35	11349		Parking Brake Link		80	11726		Muffler Ass'y.	
36	747-111		Brake Rod .25" Dia. x 12.62" Lg.		81	712-425		Square Nut #10-24 Thd.*	
37	732-245		Brake Spring		82	725-157		Cable Tie Self Clinching	
38	723-215		Foot Pad 3-1/4" x 17" Lg.		83	710-160		Hex Wash. Hd. AB-Tapp. Scr. #8 x .62" Lg.	
39	—		Transaxle		84	751-165		Muffler Screen Ass'y.	N
40	761-136		Brake Disc Ass'y.		85	12093		Rear Frame Ass'y.	N
41	727-143		Grease Gun #5911						
43	11321		Clutch Pedal Ass'y.						
44	9581		Foot Pad Ass'y. L.H.						
45	11318		Clutch Lever						

\*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

# 144-860A

## 144-960A



LIFT ASSEMBLY AND THREE POINT HITCH

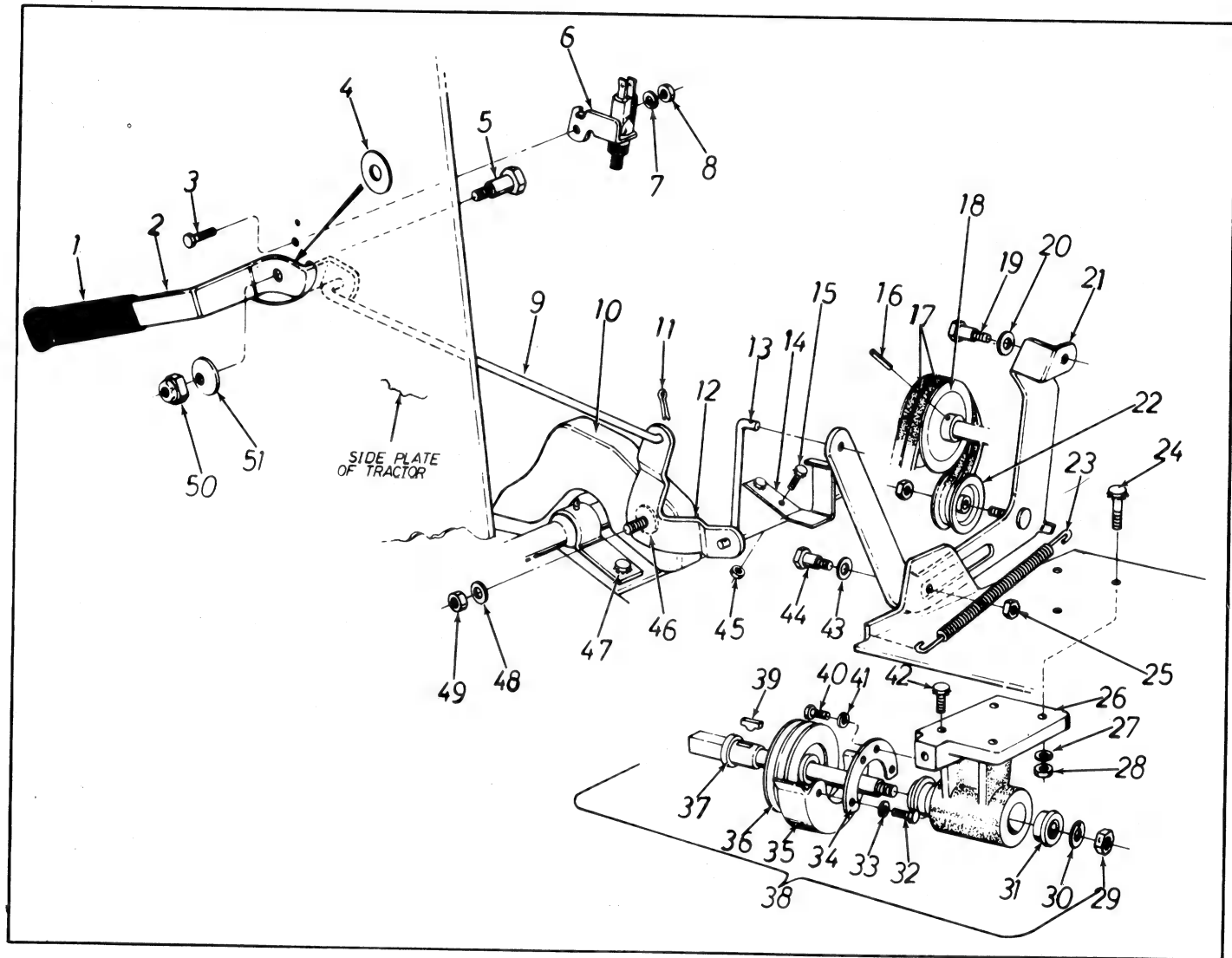
# **PARTS LIST FOR LIFT ASSEMBLY AND THREE-POINT HITCH 144-860A AND 144-960A**

REF J.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	726-110		Push Cap .375 Rod (Black)		30	7387		Flat Washer .640 I.D. x 1-3/4" O.D. x 3/16	
2	8818		Grip 1.00" I.D.		31	711-513		Hitch Chain Hook	
3	9470		Lift Handle Spacer Tube		32	10996		Draw Bar Assembly	
4	736-185		Flat Washer .406 I.D. x .74 O.D. x .063		33	712-923		Hex Center Lock Nut 5/8-18 Thd.	
5	732-156		Compression Spring		34	736-158		Spring Lock Washer 5/8" Scr. *	
6	736-185		Flat Washer .406 I.D. x .74 O.D. x .063		35	711-497		Link Clevis Pin	
7	9448		Lift Handle Rod Lockout		36	713-148		Chain 3/16" Dia. x 20 Links	
8	710-252		Hex Hd. Cap Scr. 1/4-20 x .75" Lg. *		37	10985		Draft Bar Ass'y.—L.H.	
9	11750		Lift Handle Sub Assembly		38	7387		Flat Washer .640 I.D. x 1-3/4" O.D. x 3/16	
10	712-107		Hex Center Lock Nut 1/4-20 Thd.		39	714-117		Internal Cotter-Pin 5/8" Dia.	
11	11749		Lift Handle Assembly-Complete		40	7387		Flat Washer .640 I.D. x 1-3/4" O.D. x 3/16	
12	714-117		Internal Cotter-Pin 5/8" Dia.		41	714-117		Internal Cotter-Pin 5/8" Dia.	
13	7387		Flat Washer .640 I.D. 1-3/4" O.D. x 3/16		42	10991		Adjustment Clevis Assembly	
14	711-309		Clevis Pin .62" Dia.		43	10923		Lift Pull Rod Assembly	
15	10923		Lift Pull Rod Ass'y.		44	10994		Clevis Screw Assembly	
16	10991		Adjustment Clevis Ass'y.		45	10991		Adjustment Clevis Assembly	
17	711-225		Clevis Pin .624" Dia.		46	11323		Lift Arm Assembly <i>real pin</i>	
18	9406		Rear Frame Plate Ass'y.		47	<del>710-356</del>		<del>Sq. Hd. Set Scr. 5/16-18 x .50" Lg. (Cup Point)</del>	
19	10993		Upper Hitch Bracket		48	746-129		Choke Control Complete	
20	711-174		Clevis Pin .624" Dia.		49	726-119		Plug Button	
21	710-253		Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg. *		50	725-202		Head Light Switch	
22	736-217		Spring Lock Washer 3/8" Scr. Heavy Duty		51	725-267		Ignition Switch	
23	11316		Rear Frame Support		52	725-128		Ignition Key	
24	7387		Washer .640 I.D. x 1-3/4" O.D. x 3/16		53	710-351		Truss Hd. Mach. Scr. B-Tapp. #10 x .50" Lg.	
25	714-117		Internal Cotter-Pin 5/8" Dia.		54	725-119		Ammeter	
26	711-497		Link Clevis Pin		55	722-118		Throttle Control Knob	
27	10986		Draft Bar Ass'y.—R.H.		56	746-130		Throttle Control	
28	712-342		Hex Jam Nut 3/8-16 Thd.		57	9528		Instrument Panel-Bezel	
29	714-117		Internal Cotter-Pin 5/8" Dia.						

\*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

# 144-860A 144-960A



**POWER TAKE OFF**

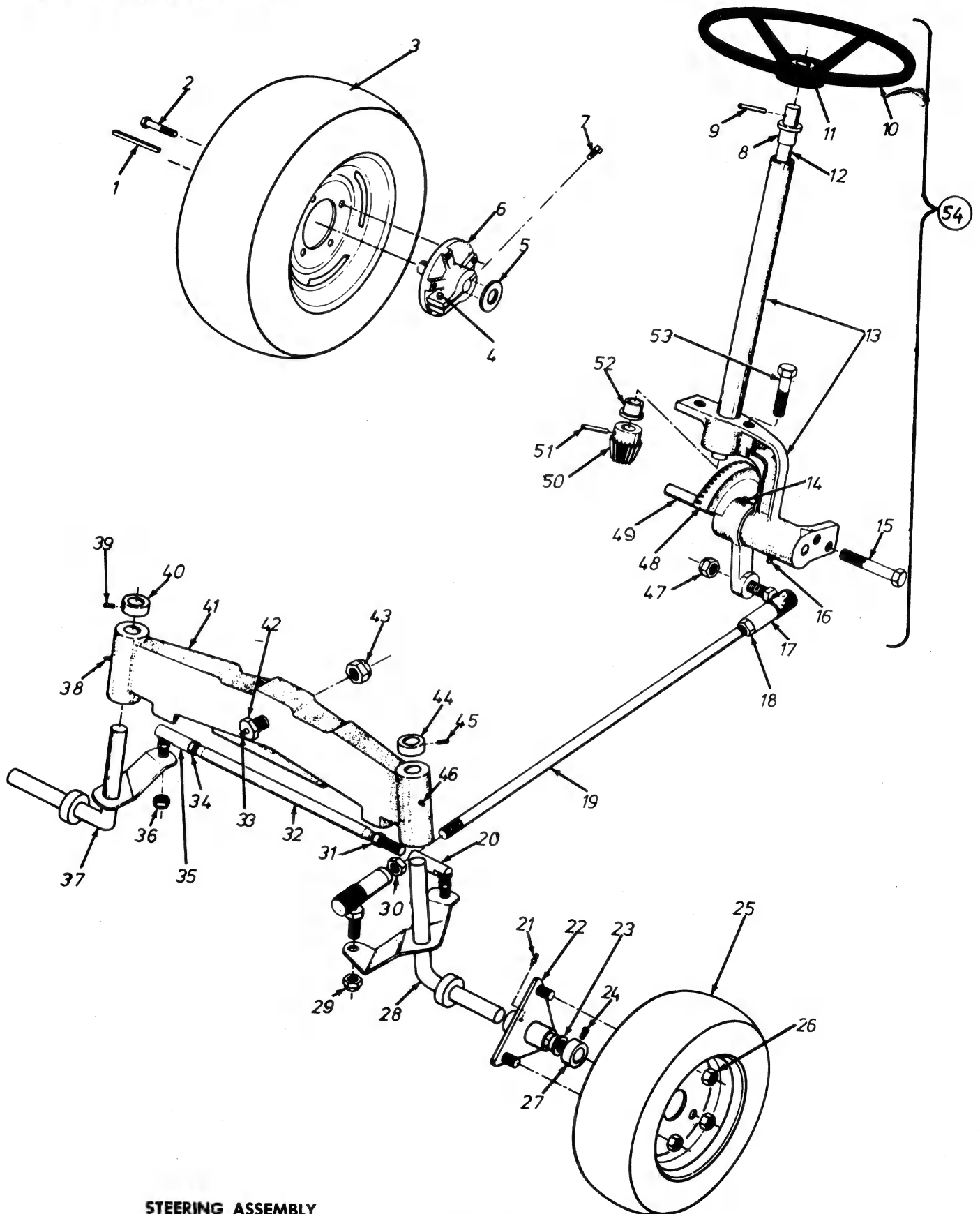
# **PARTS LIST FOR POWER TAKE OFF MODELS 144-860A AND 144-960A**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-143		Grip		27	736-169		L-Wash. 3/8" Scr.*	
2	12197		P.T.O. Handle	N	28	712-798		Hex Nut 3/8-16 Thd.*	
3	710-136		Hex Scr. 1/4-20 x 1.75" Lg.*		29	712-221		Hex Ins. L-Nut 5/8-18 Thd.	
4	736-167		Fl.-Wash. .656 I.D. x 1.25" O.D.		30	736-158		L-Wash. 5/8" Scr.*	
5	738-149		Shldr. Scr. .625" Dia. x .425		31	741-161		Ball Brg. .787 I.D. x 1.85 O.D.	
6	725-268		Safety Switch		32	710-289		Hex Scr. 1/4-20 x .50" Lg.*	
7	736-329		L.-Wash. 1/4" Scr.*		33	736-329		L-Wash. 1/4" Scr.*	
8	712-287		Hex Nut 1/4-20 Thd.*		34	11327		Belt Guard Mtg. Brkt.	
9	747-137		P.T.O. Rod	N	35	11328		Belt Guard Ass'y.	
10	11322		Clutch Pivot Brkt. Ass'y.		36	756-177		P.T.O. Pulley	
11	714-507		Cotter Pin 3/32" Dia.x.75" Lg.		37	738-156		P.T.O. Shaft	
12	11344		Idler Crank		38	717-218		P.T.O. Ass'y.—Comp.	
13	11570		P.T.O. Clutch Rod		39	714-113		#A Hi-Pro-Key 1/4 x .78" Dia.	
14	9476		Belt Trapout Brkt.		40	710-289		Hex Scr. 1/4-20 x .50" Lg.*	
15	710-211		Hex Sems Scr. 1/4-20 x .75" Lg.*		41	736-329		L-Wash. 1/4" Scr.*	
16	715-114		Sprg Pin Spir. 1/4" Dia.x1.50"		42	710-937		Hex Scr. 3/8-16 x 2.50" Lg.*	
17	754-165		V-Belt : 1/2 x 34" Lg. (Matched Set)		43	736-179		Fl.-Wash. .531 I.D. x 1.25 O.D.	
18	756-176		P.T.O. Engine Pulley		44	738-143		Shldr Scr. .498" Dia. x .340	
19	738-163		Shldr. Scr. .625 Dia. x .261		45	712-107		Hex Center L-Nut 1/4-20 Thd.	
20	736-116		Fl.-Wash. .635 I.D. x .93 O.D.		46	736-116		Fl.-Wash. .635 I.D. x .930 O.D.	
21	11434		P.T.O. Clutch Idler Brkt. Ass'y.		47	710-198		Hex Sems Scr. 5/16-18 x .75"*	
22	756-183		Fl-Idler 3.62 O.D.		48	736-300		Fl.-Wash. .385 I.D. x .87 O.D.	
23	732-199		Extension Spring		49	712-130		Hex Ins. L-Nut 3/8-16 Thd.*	
24	710-344		Hex Scr. 3/8-16 x 1.50" Lg.*		50	712-130		Hex Ins. L-Nut 3/8-16 Thd.*	
25	712-375		Hex Center L-Nut 3/8-16 Thd.		51	736-219		Belleville Wash. .400 I.D. x 1.13 O.D.	
26	717-219		P.T.O. Housing						

\*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.  
(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

# 144-860 A

# 144-960 A



STEERING ASSEMBLY



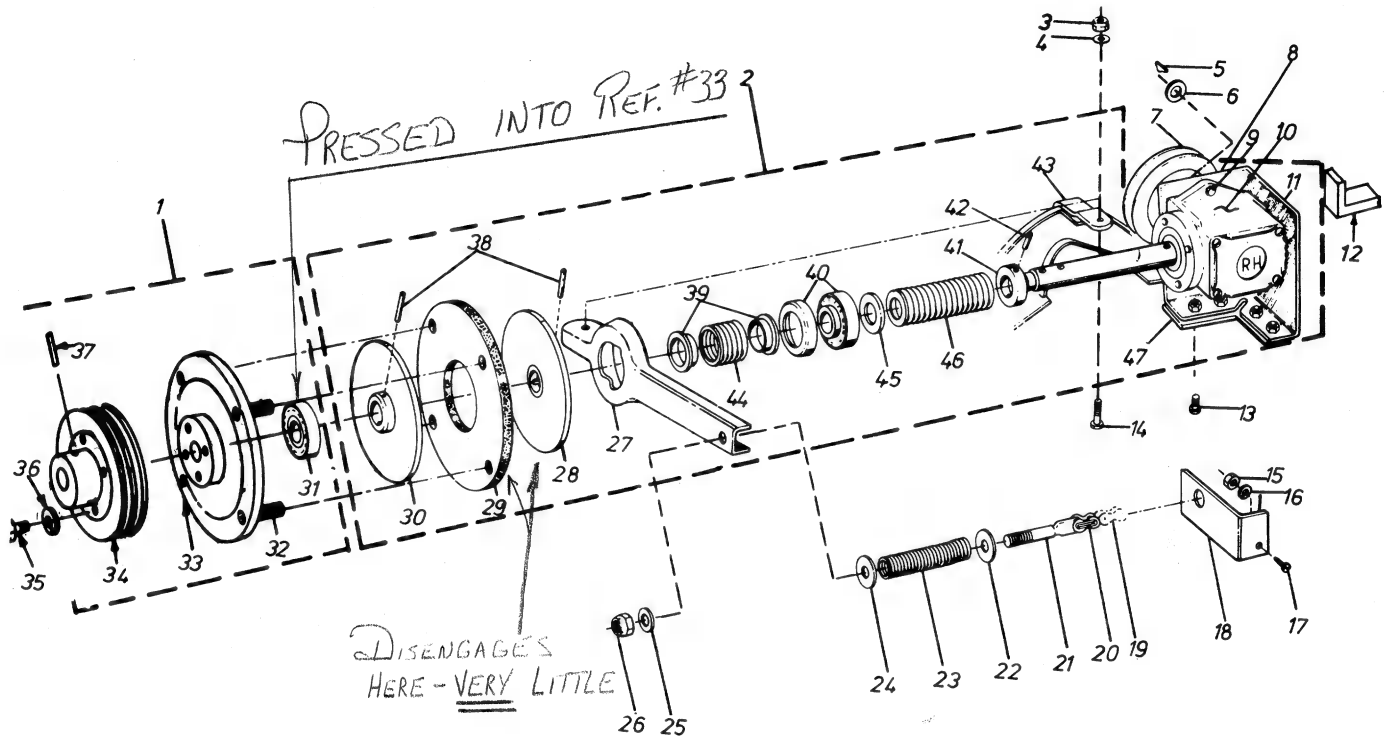
# **PARTS LIST FOR STEERING ASSEMBLY 144-860A AND 144-960A**

REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	714-120		Square Key 1/4" x 1/4" x 30" Lg.*			9262		Front Wheel Rim Ass'y. Only	
2	710-336		Wheel Lug Bolts 7/8-20 x 1.19" Lg. (5 Req'd. Ea. Wheel)			734-526		Tire Only 16.0 x 6.50—Front Wheel	
3	734-320		Rear Wheel Ass'y. Comp. 23.0 x 9.50		26	712-193		Cone Nut 3/8-24 Thd.	
	734-279		Rim Ass'y. Only—Rear Wheel		27	748-386		Collar 3/4" I.D. (Axle)	
	734-322		Tire Only—Rear Wheel 23.0 x 9.50		28	9423		Axle Ass'y.—Front Wheel—L.H.	
4	710-342		Hex Hd. Cap Scr. 3/8-16 x 1.25" Lg.*		29	712-200		Hex Inserted Lock Nut 1/2-20 Thd.	
5	736-163		Flat Washer 1.03 I.D. x 1.62 O.D. x .03 Hardened		30	712-922		Hex Jam Nut 1/2-20 Thd.	
6	10577		Hub Assembly—Rear Wheel		31	712-711		Hex Jam Nut 3/8-24 Thd.	
7	710-531		Square Hd. Set Scr. 3/8-16 x .75" Lg.		32	711-454		Tie Rod (Threaded Both Ends)	
8	748-157		Flanged Bushing—Steering Tube		33	737-479		Grease Fitting	
9	715-101		Spring Pin Spirol 1/4" Dia. x 1.50" Lg.*		34	712-711		Hex Jam Nut 3/8-24 Thd.	
10	723-185		Steering Wheel		35	723-156		Ball Joint Ass'y. 3/8-24 Thd. (Tie Rod End)	
11	723-188		Steering Wheel Cap		36	712-116		Hex Inserted Lock Nut 3/8-24 Thd.	
12	9535		Steering Rod		37	9422		Axle Ass'y.—Front Wheel—R.H.	
13	9517		Steering Tube and Seg. Support Ass'y. +		38	737-108		Grease Fitting	
14	710-349		Square Hd. Set Scr. 5/16-18 x .75" Lg.*		39	710-356		Sq. Hd. Set Scr. 5/16-18 x .50" Lg. (Cup Point)	
	710-253		Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*		40	748-386		Collar 3/4" I.D. (Axle Ass'y.)	
16	737-479		Grease Fitting		41	10587		Front Axle Support	
17	723-179		Drag Link Joint Assembly		42	710-335		Pivot Bolt 3/4-10 x 4.00 (Special)	
18	712-922		Hex Jam Nut 1/2-20 Thd.		43	712-205		Hex Inserted Lock Nut 3/4-10 Thd.	
19	711-455		Drag Link		44	748-386		Collar 3/4" I.D. (Axle Ass'y.)	
20	723-156		Ball Joint Ass'y. 3/8-24 Thd. (Tie Rod End)		45	710-356		Sq. Hd. Set Scr. 5/16-18 x .50" Lg. (Cup Point)	
21	737-108		Grease Fitting		46	737-108		Grease Fitting	
22	10457		Hub Ass'y.—Front Wheel (Includes Bearings & Grease Fitting).		47	712-200		Hex Inserted Lock Nut 1/2-20 Thd.	
23	741-141		Ball Bearing		48	10573		Gear Segment	
24	710-356		Sq. Hd. Set Scr. 5/16-18 x .50" Lg. Cup Point		49	9563		Segment Shaft	
25	734-525		Front Wheel Ass'y. Comp. 16.0 x 6.50		50	717-269		Pinion Gear	
					51	715-101		Spring Pin Spirol 1/4" Dia. x 1.50" Lg.	
					52	748-157		Flanged Bearing—Steering Tube	
					53	710-216		Hex Hd. Cap Scr. 3/8-16 x .75" Lg.	
					54	11264		Steering Ass'y. Complete	

\*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.  
(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

+ 719-135

144-860A 10HP  
144-960A 16HP



CLUTCH ASSEMBLY

# **PARTS LIST FOR CLUTCH ASSEMBLY 144-860A AND 144-960A**

REF	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	717-229		Drive Plate and P.T.O. Pulley Ass'y.		25	736-300		Flat Washer .385 I.D. x .87 O.D. x .060	
2	717-228		Clutch Ass'y.		26	712-130		Hex Inserted Lock Nut 3/8-16 Thd.	
3	712-130		Hex Inserted Lock Nut 3/8-16 Thd.		27	11350		Clutch Yoke Assembly	
4	736-300		Flat Washer .385 I.D. x .87 O.D. x .060		28	10444		Disc Assembly—Clutch	
5	714-126		#9 Hi-Pro-Key 3/4" x 3/4" Dia. Hon.		29	717-160		Drive Disc.	
6	736-181		Flat Washer .938 I.D. x 1.47 O.D. x .100		30	10443		Disc Assembly—Clutch	
7	10572		Sheave Ass'y.—For Right Angle Gear Box		31	741-140		Ball Bearing .750 Bore 1.625 O.D.	
8	9591		Gear Box Mounting Plate		32	711-459		Replacement Stud	
9	710-342		Hex Hd. Cap Scr. 3/8-16 x 1.25" Lg.			712-195		Hex Nut for Replacement Stud.	
10	717-161		Right Angle Gear Box		33	717-230		Drive Plate Sub Ass'y.	
11	9410		Gear Box Mounting Bracket Ass'y.		34	756-176		P.T.O. Engine Pulley	
12	10549		Brace Assembly		35	710-116		Hex Hd. Cap Scr. 5/16 x 2.00" Lg.*	
13	710-253		Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*		36	736-119		Spring Lock Washer 5/16" Scr.*	
14	710-340		Socket Hd. Shoulder Scr. .50" Dia. x .75" Lg.		37	715-113		Spring Pin Spirol 5/16" Dia. x 2.50" Lg.	
15	712-287		Hex Nut 1/4-20 Thd.*		38	715-121		Spring Pin Spirol 1/4" Dia. x 2.00" Lg.	
16	736-329		Spring Lock Washer 1/4" Scr.*		39	711-447		Spring Guide	
17	710-258		Hex Hd. Cap Scr. 1/4-20 x .62" Lg.		40	10477		Bearing Assembly	
18	11317		Spring Retainer		41	711-444		Spring Collar	
19	713-136		#48 Chain 1/2" Pitch x 19 Links		42	715-114		Spring Pin Spirol 1/4" Dia. x 1.50" Lg.	
20	713-116		#48 Master Link 1/2" Pitch Type I		43	10450		Clutch Yoke Pivot Bracket Ass'y.	
21	711-289		Clutch Adjusting Rod		44	732-204		Clutch Helper Spring	
22	736-112		Belleville Washer .535 I.D. x 1.50 O.D. x .052		45	736-214		Flat Washer .885 I.D. x 1.37 O.D. x .060	
23	732-207		Yoke Return Spring		46	732-205		Clutch Spring	
24	736-112		Belleville Washer .535 I.D. x 1.50 O.D. x .052		47	10551		Gear Box Mounting Washer	

\*For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.  
(459—Mag. Flake) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e. g. Mag. Flake Finish—9525(459)).

## **WHEEL CHART**

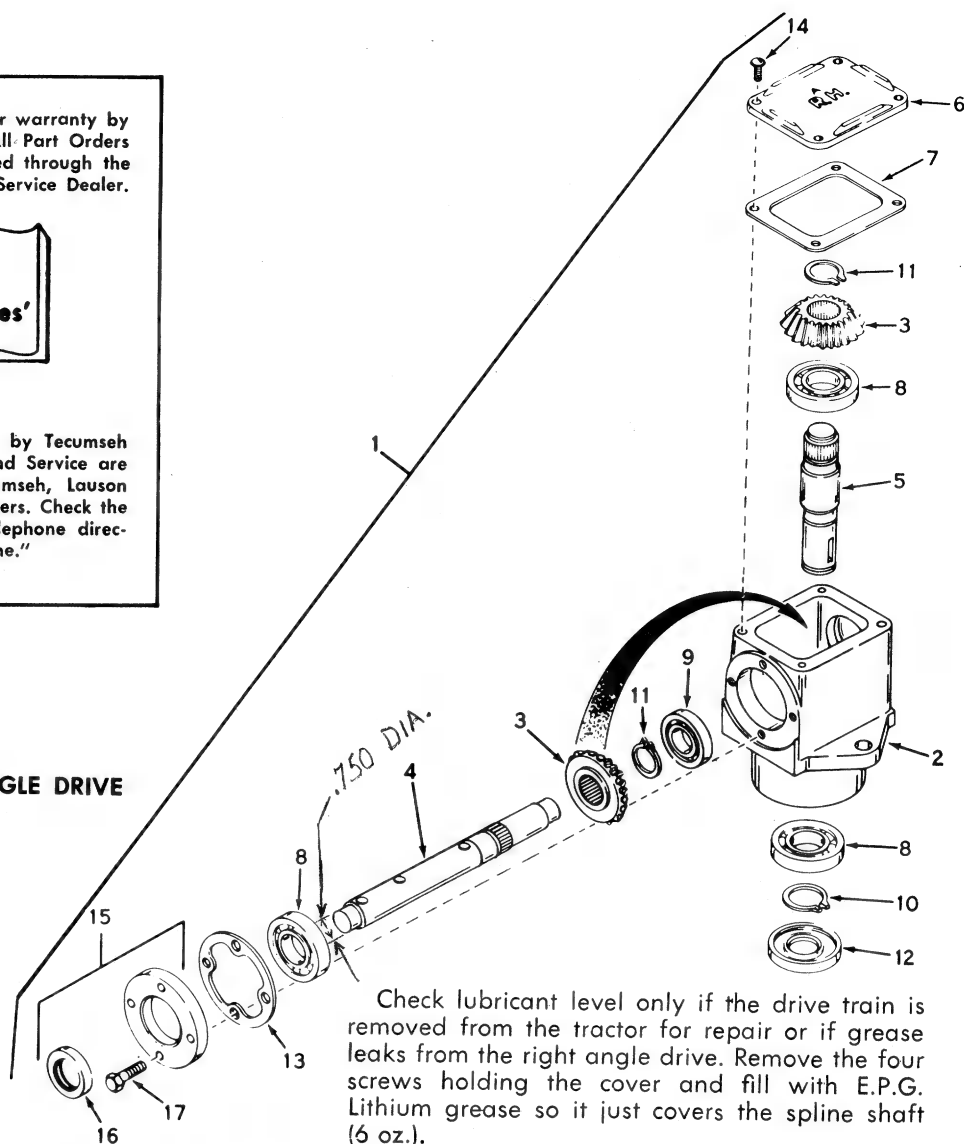
FRONT WHEEL		REAR WHEEL	
Part No.	Description	Part No.	Description
734-525	Wheel Ass'y.—Comp. 16 x 6.50	734-320	Wheel Ass'y.—Comp. 23 x 9.50
9262	Rim Only	734-279	Rim Only
734-526	Tire Only 16 x 6.50 Tubeless	734-322	Tire Only 23 x 9.50 Tubeless
741-141	Bearing	—	Bearing (Part of Transaxle)
10457	Hub Ass'y.	10577	Hub Ass'y.
734-255	Air Valve	734-255	Air Valve
734-253	Inner Tube (Service Only)	734-329	Inner Tube (Service Only)

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.



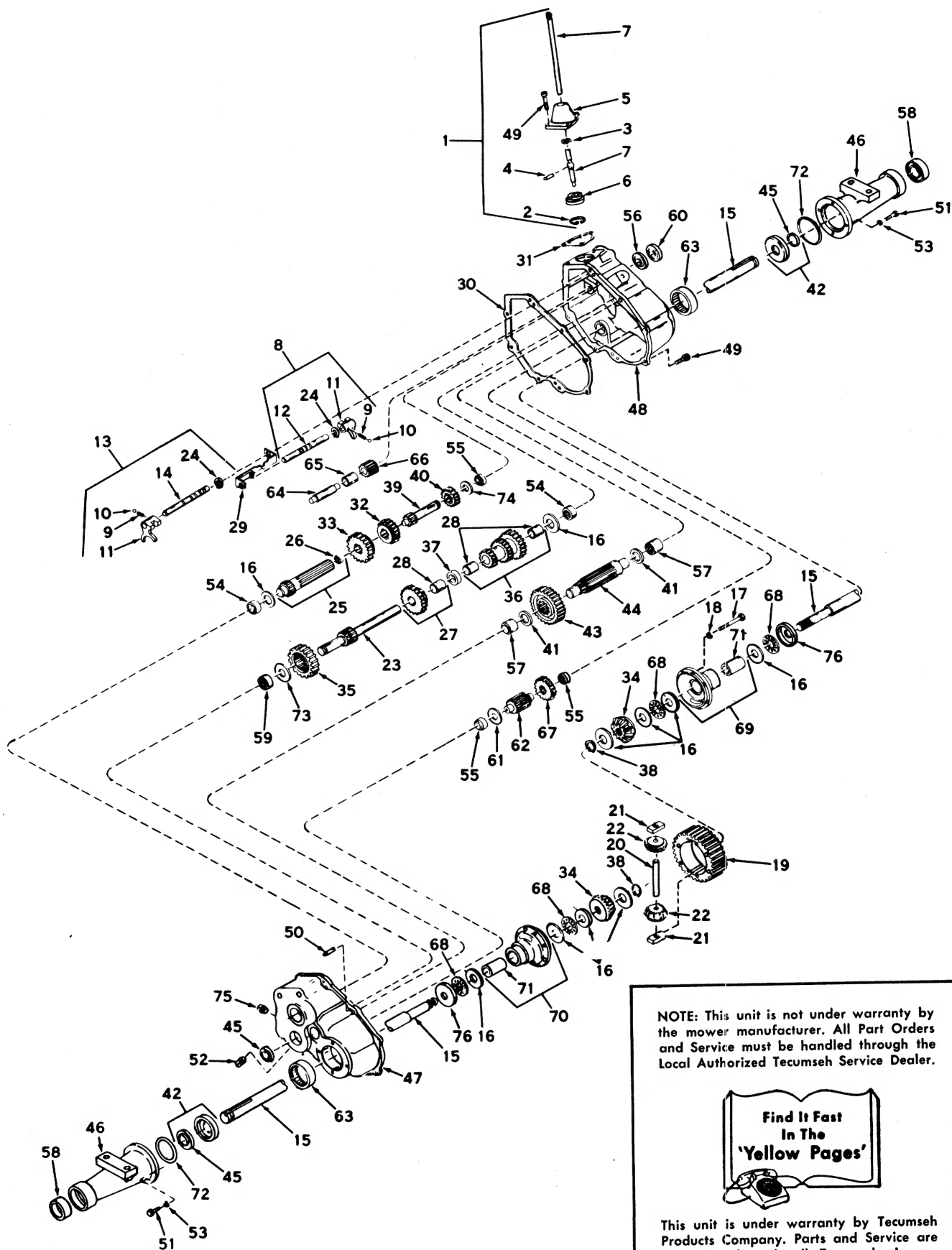
This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

# RIGHT ANGLE DRIVE



## RIGHT ANGLE DRIVE MODEL NO. (PEERLESS RA-208-P91)

REF NO.	PART NUMBER	DESCRIPTION
1	794077	Head Assy. Right hand (Incl. Nos. 2 thru 15)
2	770026	Housing, Right angle drive
3	778046	Gear, Miter
4	776116	Shaft, Input pinion
5	776060A	Shaft, Output
6	772034	Cover, Right hand
7	788028	Gasket, Cover
8	780034	Bearing, Ball
9	780024	Bearing, Ball
10	788019	Ring, Snap
11	788018	Ring, Snap
12	788029	Seal, Oil
13	788030	Gasket, Cap
14	792025	Screw, Rd. hd. self tap, 10-24 x 1/2
15	786029	Cap & Seal Assy., Retainer (Incl. Nos. 16 & 17)
16	788031	Seal, Oil
17	792026	Screw, Hex hd. 1/4-20 x 7/8



TRANSAXLE (PEERLESS 2315A)

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.



This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

TRANSAXLE MODEL NO. (PEERLESS 2315-A)					
Ref. No.	Part Number	DESCRIPTION	REF NO.	PART NUMBER	DESCRIPTION
1	784151	Lever & Housing Assy., Shift (Incl. Nos. 2 thru 7)	39	776015A	Shaft, Input
2	792016	Ring, Snap	40	778024	Spur Gear, Input shaft
3	792001	Ring, Quad	41	780052	Washer, Thrust
4	792002	Pin, Roll	42	788021	Seal & Retainer Assy., Oil (Incl. No. 45)
5	784093	Housing, Shift lever	43	778036	Gear, Output
6	784094	Keeper, Shift lever	44	776028	Pinion, Output
7	784152	Lever, Shift	45	788008	Seal, Oil
8	784054	Rod Assy., Shift (Incl. Nos. 9 thru 12 & 24)	46	782024	Housing, Axle
9	792003	Spring	47	772016A	Cover Assy., Transaxle (Incl. Nos. 54, 55, 57, 59 & 63)
10	792004	Ball, Steel	48	770012	Case Assy., Transaxle (Incl. Nos. 54, 55, 57 & 63)
11	784004	Fork, Shifter	49	792007	Screw, Socket hd. cap, 1/4-20 x 3/4
12	784055	Rod, Shifter (3rd & 4th)	50	786026	Pin, Dowel
13	784056	Rod Assy., Shift (Incl. Nos. 9, 10, 11 & 14)	51	792028	Screw, Hex hd. 5/16-18 x 7/8
14	784057	Rod, Shifter (low)	52	792019	Plug, Magnetic drain
15	774124	Axle	53	792029	Lockwasher, Split 5/16"
16	780042	Washer, Thrust	54	780049	Bearing, Needle
17	792005	Screw, Hex hd. cap, 1/4-20 x 2-1/2	55	780022	Bearing, Needle
18	792006	Lockwasher, 1/4	56	780024	Bearing, Ball
19	778033A	Gear, Ring	57	780047	Bearing, Needle
20	786019	Pin, Drive	58	780050	Bearing, Ball
21	786027	Block, Drive	59	780046	Bearing, Needle
22	778094	Pinion, Bevel	60	788025	Seal, Oil
23	776029A	Shaft & Gear, Brake	61	780001	Washer
24	792017	Ring, Snap	62	776031	Shaft & Pinion
25	776026	Shaft & Bearing Assy., Pinion (Incl. No. 26)	63	780048	Bearing, Needle
26	780018	Bearing	64	776030	Shaft, Reverse idler
27	778034	Gear Cluster Assy., (Incl. No. 28)	65	786025	Spacer, Reverse idler
28	780053	Bushing	66	778016	Idler, Reverse
29	784074	Stop, Shifter	67	778038	Spur gear (22 teeth)
30	788023	Gasket, Case & Cover	68	780039	Bearing, Thrust
31	788022	Gasket, Shift lever housing	69	774072A	Carrier Assy., Differential (Incl. No. 71)
32	778019	Gear, Shifting (3rd & 4th)	70	774071A	Carrier Assy., Differential (Incl. No. 71)
33	778020	Gear, Shifting (1st, 2nd & Rev.)	71	780041	Bushing
34	778095	Gear, Bevel	72	788024	"O" Ring
35	778037	Gear, Idler	73	780007	Washer, Thrust
36	778035	Gear Cluster Assy., (Incl. No. 28)	74	780051	Washer, Thrust
37	786024	Spacer	75	792010	Plug, Pipe
38	792018	Ring, Snap	76	780075	Race, Thrust

## BATTERY WARRANTY CERTIFICATE

The following general warranty policy applies to all batteries sold by IBMA members using this warranty. The nationwide warranty applies only to batteries bearing the IBMA seal of approval.

All new batteries sold by IBMA members carry a warranty against faulty material or workmanship for 90 days from date of purchase. A faulty battery is to be adjusted, repaired or replaced with a new battery by an IBMA member, jobber or dealer only, or the warranty becomes void. An IBMA type battery that is faulty within the 90 day period is to be repaired or replaced with a new battery F.O.B. any IBMA factory supplier or any IBMA authorized dealer, without charge.

Your battery carries a further warranty on a pro-rata adjustment basis covering the number of months deter-

mined by the class of service and type of battery. In determining the exchange cost of a new battery, charges will be made for months of service used and the warranty is valid to the original purchaser only.

IBMA approved factory suppliers, as well as all IBMA authorized dealers, are to honor this Warranty. If your IBMA approved battery carries the IBMA seal of approval, this Warranty is to be honored by dealers handling IBMA approved batteries everywhere. (Independent Battery Manufacturers Association, Inc.)

Failures in service that are caused by fire, collision, freezing, abuse, faulty electrical equipment or the use of a battery of a group size smaller or specifications lower than the original battery are not covered by this policy.

## BATTERY MANUFACTURER MEMBERSHIP LIST

### ALABAMA

**Birmingham**  
Southern Bty.  
Yocam Batteries  
**Mobile**  
Yocam Batteries  
**Montgomery**  
Ebco Battery

### ALASKA

**Anchorage**  
Alaska Husky Bty.

### ARKANSAS

**Hot Springs**  
Red Diamond Bty.

### CALIFORNIA

**Los Angeles**  
Estee Battery  
Laher Bty. Prod.

**Oakland**  
Laher Bty. Prod.

**Sacramento**  
Laher Bty. Prod.

**San Francisco**  
Amp King Bty.  
Laher Bty. Prod.  
Pico Bty. Mfg.

**Stockton**  
Stockton Battery

### COLORADO

**Denver**  
Moore Battery

### D. C.

**Washington**  
Express Bty. Div.  
Leeth Brothers

### FLORIDA

**Fort Lauderdale**  
Florida Bty.

**Hialeah**  
East Penn Mfg.

**Jacksonville**  
Tropex Batteries  
Yocam Batteries

**Orlando**  
Yocam Batteries

### Miami

Tropex Batteries  
Yocam Batteries

### Pensacola

Yocam Batteries

### St. Petersburg

Electro Battery Co.

### Tampa

Bilt-Rite Bty. Mfg.  
Contract Bty. Mfg.  
DeSoto Bty. & Elec.  
Tropex Batteries  
Yocam Batteries

### GEORGIA

**Albany**  
Ebco Battery

**Atlanta**  
Ebco Battery  
Southern Bty.  
Yocam Batteries

**Columbus**  
Ebco Battery  
Contract Bty. Mfg.  
Yocam Batteries

### ILLINOIS

**Belleville**  
Bell City Bty. Mfg.

**Chicago**  
Illinois Bty. Mfg.  
Universal Bty.  
Volta Bty. Corp.

**Peoria**  
Red Diamond Bty.

### INDIANA

**Muncie**  
Stout Storage Bty.

### IOWA

**Corydon**  
Voltmaster

**Council Bluffs**  
Reliance Bty. Prod.

**Des Moines**  
Voltmaster

### KANSAS

**Kansas City**  
American Batteries  
Contract Bty. Mfg.

### KENTUCKY

**Whitesburg**  
Electro-Lite Bty.

### LOUISIANA

#### New Orleans

Central Bty.  
Reliable Bty.

#### Shreveport

Central Bty.

### MARYLAND

**Baltimore**  
East Penn Mfg.

### MASSACHUSETTS

**Watertown**  
Atlantic Bty.

### MICHIGAN

**Detroit**  
Batteries Mfg.

**Flint**  
ABC Batteries

**Holly**  
Detroit Battery

**Madison Heights**  
C & W Lektra

**Warren**  
G & M Battery

### MINNESOTA

**St. Paul**  
Standard Storage Bty.

### MISSISSIPPI

**Florence**  
Contract Bty. Mfg.

**Jackson**  
Central Bty.

### MISSOURI

#### JOPLIN

Lead Products  
Maryland Heights  
Electro Bty. Mfg.

**Sikeston**  
Electro Bty.

### NEW JERSEY

**Atlantic City**  
Landis Battery

### NEW MEXICO

**Albuquerque**  
Sandia Bty. Mfg.

### NEW YORK

**Buffalo**  
East Penn Mfg.

**Lockport**  
Great Lakes Battery

### NORTH CAROLINA

**Charlotte**  
Yocam Batteries

**Thomasville**  
East Penn Mfg.

### OHIO

**Akron**  
Crown Battery

**Cincinnati**  
Moore Battery

**Cleveland**  
Crown Battery  
New Castle Bty.

**Columbus**  
Crown Battery

**Fremont**  
Crown Battery

### OREGON

**Beaverton**  
Western Bty., Inc.

**Portland**  
Laher Bty. Prod.

### PENNSYLVANIA

**Altoona**  
East Penn Mfg.

**Erie**  
New Castle Bty.

**Lancaster**  
Lancaster Bty.

**Lyon Station**  
East Penn Mfg.

**New Castle**  
New Castle Bty.

**Philadelphia**  
East Penn Mfg.

**Pittsburgh**  
Simon Bty. & Res.  
Geidel Bty. Div.

### RHODE ISLAND

**Providence**  
Pilot Mfg., Inc.

### SOUTH CAROLINA

**Columbia**  
Yocam Batteries

### TENNESSEE

**Chattanooga**  
Electro-Lite Bty.

**Knoxville**  
Southern Bty.

**Memphis**  
Central Battery  
Laher Bty. Prod.  
Southern Bty.

**Nashville**  
Electro-Lite Bty.  
Southern Bty.

### TEXAS

**Dallas**  
Continental Bty.  
Reliable Battery

**El Paso**  
El Paso Bty.

**Houston**  
Texford Bty. Co.  
Reliable Battery

**San Antonio**  
Reliable Battery

### UTAH

**Salt Lake City**  
Laher Bty. Prod.

### VIRGINIA

**Arlington**  
Express Bty. Div.  
Leeth Bros.

**Lynchburg**  
Hydrate Battery

### WASHINGTON

**Seattle**  
Laher Bty. Prod.

**Spokane**  
Laher Bty. Prod.

### CANADA

**Vancouver, B. C.**  
Industrial Bty. &  
Supply

# PARTS INFORMATION

**DEFECTIVE OR MISSING PARTS** must be reported to the factory immediately. Such claims must include your model number and date of purchase.

## POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

**A 1 Engine & Mower Co.**  
327 East 9th Street  
Salt Lake City, Utah 84102

**American Electric Ignition Co.**  
124 N. W. 8th Street  
Oklahoma City, Oklahoma 73102

**Auto Electric & Carburetor Co.**  
2525 4th Avenue, S.  
P. O. Box 1948  
Birmingham, Alabama 35233

**Automotive Equipment Service Co.**  
3117 Holmes Street  
Kansas City, Missouri 64109

**Bailey's Rebuild Inc.**  
1325 E. Madison Street  
Seattle Washington 98102

**Bleckie, Inc.**  
7900 Lorain Avenue  
Cleveland, Ohio 44102

**Brown Equipment Distributor Inc.**  
110 Beech Street  
Corydon, Indiana 47112

**Bullard Supply**  
2409 Commerce Street  
Houston, Texas 77003

**Carl A. Anderson Co.**  
623 S. 16th Street  
Omaha, Nebraska 68102

**Catto & Putty, Inc.**  
P. O. Box 2408  
510 Soledad Street  
San Antonio, Texas 78205

**Center Supply Company**  
6867 New Hampshire Avenue  
Takoma Park, Maryland 20012

**Dixie Sales Company**  
P. O. Box 1408  
327 Battleground Avenue  
Greensboro, North Carolina 27402

**East Point Cycle & Key Shop**  
1617 Whiteway  
East Point, Georgia 30044

**Gamble Distributors**  
West End Avenue  
Carthage, New York 13619

**Garden Equipment Co., Inc.**  
6600 Cherry Avenue  
Long Beach, California 90805

**Gardenville Supply, Inc.**  
Pipersville, Pennsylvania 18947

**Henry W. O'Neil & Assoc., Inc.**  
410 North Goodman Street  
Rochester, New York 14609

**Henzler, Inc.**  
2015 Lemay Ferry Road  
St. Louis, Missouri 63125

**Kenton Supply**  
8216 North Denver Avenue  
Portland, Oregon 97217

**Kimber's Inc.**  
115 W. Geddes St.  
Syracuse, New York 13204

**The Lawnmower Shop**  
1340 El Camino Real  
San Carlos, California 94070

**Marr Brothers**  
423 E. Jefferson  
Dallas, Texas 75203

**Mathews Auto Electric Co.**  
420 East 2nd Street  
Tulsa Oklahoma 74120

**McClure Lawn & Garden Supply**  
1114 Lexington Avenue  
Mansfield, Ohio 44907

**Memphis Cycle & Supply Co.**  
421 Monroe Avenue  
Memphis Tennessee 38103

**Morton B. Collins Co.**  
300 Birnie Avenue  
Springfield, Massachusetts 01107

**Moz-All of Florida, Inc.**  
365 Greco Avenue  
Coral Gables, Florida 33146

## BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson — Power Products.

**National Central, Div. of**  
Joe Sterling, Inc.  
Drawer "D" 687 Seville Rd.  
Wadsworth, Ohio 44281

**Parts & Sales Inc.**  
2101 Industrial Pkwy.  
Elkhart, Indiana 46514

**Power Equipment Distributor**  
36463 So. Gratiot Avenue  
Mt. Clemens, Michigan 48043

**Power Lawn & Garden Equip. Co.**  
2551-2571 J. F. Kennedy Road  
Dubuque, Iowa 52001

**Radco Distributors**  
2403 Market Street  
P. O. Box 3216  
Jacksonville, Florida 32206

**Raub Supply Company**  
James & Mulberry Sts.  
Lancaster, Pennsylvania 17604

**Richmond Battery & Ignition**  
P. O. Box 25369 — 957 Myers St.  
Richmond, Virginia 23260

**Smith Hardware Company**  
515 N. George Street  
Goldsboro, North Carolina 27530

**South Denver Lawn Equip. Co.**  
527 West Evans  
Denver, Colorado 80223

**Suhren Engine**  
8330 Earhart Blvd.  
New Orleans, Louisiana 70118

**Sutton's Lawn Mower Shop**  
Route 4, Box 343  
North Little Rock, Arkansas 72117

**Warner Equipment**  
7520 Lyndale Avenue, So.  
Minneapolis, Minnesota 55423

**Woodson Sales & Service**  
1702 North Sylvania  
Ft. Worth, Texas 76111

## WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.